REPORT ON THE 1988 DISCHARGES FROM SEWAGE TREATMENT PLANTS IN ONTARIO

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EXECUTIVE SUMMARY

The 1988 Discharge Report provides a comprehensive summary of the performance of all the Sewage Treatment Plants (STPs) in Ontario. Three parameters Biochemical Oxygen Demand (BOD), Suspended Solids (SS) and Total Phosphorus (TP) were assessed.

Four hundred and fifteen plants were operating in 1988. Of these, 53 plants were not assessed. Seven of these plants provided insufficient data with a reason. They were either new plants beginning operation in 1988, or were being upgraded in that year. Thirty-two plants did not discharge to surface water in 1988. Fourteen plants provided insufficient data for assessment without reason, as compared to 8 from 1987.

Of the 362 plants assessed, 109 (30 %) exceeded the Ministry sewage effluent quality guidelines defined in Policy 08-01 and 08-04. This is an improvement over 1987, in which 138 of 371 (37 %) plants assessed exceeded the limits.

Specifically, 15 STPs (4 % of the total number of STPs assessed) failed BOD in 1988, as compared to 17 (5 %) in 1987. Forty-seven (13 %) failed SS in 1988, as compared to 53 (14 %) in 1987. TP showed an improvement in 1988. Sixty-one continuous discharge STPs and 17 seasonal and annual lagoons (22 %) failed the monthly requirement this year as compared to a total of 100 (27 %) in 1987. Of the continuous discharge STPs in 1988, 24 plants failed TP for one month, 19 for 2 or 3 months and 18 for more than 3 months.

Forty-nine plants have failed to meet Ministry effluent guidelines for 3 successive years. Forty-eight of them have improvements planned or underway. One, Kingsville Lagoon from Southwest Region, did not report remedial action to the MISA Office of the Water Resources Branch.

This is the first year that plants were assessed against the effluent limits stipulated in their Certificate of Approval (C of A). One hundred and two C of A were reviewed in 1988, however, more than half of these contained only design limits. Data processing problems further reduced the number of STPs that could be assessed against their C of A.

In 1988, 15 STPs were evaluated against their C of A. Eleven of the 15 plants assessed complied with their C of A. Four plants failed to meet their C of A limits. Three of the

plants that failed C of A also failed the general effluent quality criteria.

This is the second year that plant bypass data were assessed. This report summarizes bypass data for mechanical plants only, since lagoons typically bypass at off-site locations. In 1988, 133 mechanical STPs reported bypass data. Sixty-three verified that no bypass occurred at their plants. Seventy plants reported having one or more bypass(es) in 1988.

Bypass data reported to Water Resources Branch improved over 1987 eg. 54 % reported bypass in 1988 as compared to 30 % in 1987, but is still incomplete. Only 4 plants submitted the complete set of data for volume, duration and number of instances for primary bypass and 2 plants for secondary bypass. Primary bypass is defined as raw sewage bypass. Secondary bypass is defined as sewage that has received solids removal at primary clarifiers but has bypassed secondary biological treatment process.

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1.0 INTRODUCTION

The 1988 Discharge Report provides a comprehensive summary of the performance of all the Sewage Treatment Plants (STPs) in Ontario. Three parameters, Biochemical Oxygen Demand (BOD), Suspended Solids (SS) and Total Phosphorus (TP) were assessed against Ministry sewage effluent quality guidelines. The 1988 Discharge Report is the first to assess these parameters against the limits stipulated in the Certificate of Approvals (C of A) for some plants. STPs exceeding their C of A limits are considered non-complying. In the future, all plants will be assessed against their C of A.

This report provides useful information for the Ministry to prioritize STPs for remedial actions. Through remedial actions, fewer plants will be out of compliance in the future, thereby improving the quality of Ontario's surface waters.

The main text of this report presents a brief summary of the number of plants failing BOD, SS and/or TP with Ministry effluent guidelines and C of A. A comparison of plants exceeding Ministry effluent guidelines between 1981 and 1988 are also discussed. In addition, plants that did not provide sufficient data for assessment and plants that exceeded Ministry effluent guidelines three successive years are highlighted in the text.

Four appendixes accompany this report. Appendix A lists all the plants exceeding Ministry effluent guidelines and indicates if they have remedial actions.

Appendix B is a summary of the plants that did not comply with their C of A. The number of plants assessed against their C of A is limited. Of 102 plants reviewed, 15 were assessed.

Appendix C provides a plant by plant summary of monthly averages for flows, concentrations and loadings of the parameters assessed. Summaries are provided for effluent guidelines as well as those plants assessed against their C of A. Remedial actions are summarized in this appendix.

Appendix D provides a monthly summary of duration, volume and number of instances of primary bypass and secondary bypass data. Primary bypass is defined as sewage that is discharged prior to treatment at primary clarifiers. Secondary bypass is defined as sewage that has received solids removal at primary clarifiers but has bypassed secondary biological treatment process.

2.0 SIGNIFICANCE OF BOD, SS AND TP

BOD, SS and TP have traditionally been used by pollution control engineers as indicators of plant performance and effluent quality. These parameters are used by the Ministry to assess STP compliance.

The strength of wastewater is often measured by the 5 day Biochemical Oxygen Demand (BOD5) test. This is the amount of oxygen required by microorganisms to reduce the organic content in sewage to carbon dioxide, measured over a 5 day period. High BOD concentrations in the effluent is an indication of high organic content remaining in the effluent, therefore ineffective treatment was provided. Discharge of such effluent may cause oxygen depletion in receiving waters and other environmental impairment.

Removal of suspended solids in sewage effluent is important since excessive amounts of solids discharged to a water course can cause aesthetic problems and kill fish by clogging their respiratory passages (gills). Also, many trace contaminants such as metals and toxic organics are often adsorbed on the solids.

Total Phosphorus has been identified as a major factor in the eutrophication of receiving waters. Excessive amounts of phosphorus, cause rapid growth of algae and weeds. When algae and weeds die they decompose and use up dissolved oxygen. Lack of dissolved oxygen can kill aquatic organisms.

3.0 MOE GUIDELINE ASSESSMENT CRITERIA

All STPs, in this report, are assessed against the Ministry's general effluent guidelines. BOD and SS are assessed on an annual average, based on the general operating requirements of Policy 08-01
" Levels of Treatment for Municipal and Private Sewage Treatment Works Discharging to Surface Waters ".

Prior to 1985, TP was also assessed on an annual average basis as stipulated in Policy 08-04 " Provision and Operation of Phosphorus Removal Facilities at Institutional and Private Treatment Works ". However, in 1983, the United States and Canada agreed to tighten the control of TP discharged to the Great Lakes Basins. Currently, TP is assessed on a monthly average basis as specified in the Canada - US Agreement on Great Lakes Water Quality (October 1983). Policy 08-04 is currently under revision to reflect this more stringent requirement.

Table 1 summarizes the effluent requirements for various types of STPs.

TABLE 1
MINISTRY GENERAL EFFLUENT REQUIREMENTS
(Based on Policy 08-01
and Canada-US Agreement, 1983)

Type of Treatment	PARAMETER		
	BOD (Annual Average Basis)	Suspended Solids (Annual Average Basis)	Total Phosphorus (Monthly Average Basis)
PRIMARY:			
Without TP Removal	30 % removal	50 % removal	n/a
With TP Removal	50 % removal	70 % removal	1.0 mg/l
SECONDARY:			
Without TP Removal	25 mg/l	25 mg/l	n/a
With TP Removal	25 mg/l	25 mg/l	1.0 mg/l
LAGOONS:			
Without TP Removal	30 mg/l	40 mg/l	n/a
Continuous TP Removal	30 mg/l	40 mg/l	1.0 mg/l
Batch TP removal	25 mg/l	25 mg/l	1.0 mg/l

n/a - not applicable

4.0 MOE CERTIFICATE OF APPROVAL ASSESSMENT CRITERIA

C of A is a legal document issued by MOE approving the construction and operation of a STP. Some C of A also stipulate the effluent quality and/or loadings of contaminants the STPs are allowed to discharge.

Prior to the construction of a STP, an environmental assessment must be performed to assess the impact of the effluent on the receiving stream. The municipality submits this assessment to the MOE Approvals Branch for consideration.

Once the site has been approved by MOE, guidelines for the operation of the STP and compliance limits delineating the maximum and/or minimum levels of discharge for specific contaminants are established in the C of A. Every new STP and STPs that are expanding or upgrading requires a C of A which is specific to that plant.

Failure to comply with C of A can result in prosecution under the Ontario Water Resources Act ie. discharge of polluting material to any water course is an offence, or the Environmental Protection Act.

Due to computer programming and C of A interpretation problems only 15 of 102 plants were assessed. Efforts are being made to ensure all plants with C of A will be assessed accordingly in the future.

5.0 SAMPLING AND REPORTING REQUIREMENTS

Under the requirements outlined in Policy 08-06 " Policy to Govern Sampling and Analysis Requirements for Municipal and Private Sewage Treatment Works (Liquid Waste Streams Only) " STPs are required to provide a Ministry laboratory a minimum of one sample per month of the influent and effluent streams for analysis. Many facilities supplement this minimum requirement by doing additional analyses at their own laboratories.

Plant operators report monthly average STP flow, influent and effluent concentrations for BOD, TP and SS to the Ministry. Data is checked for accuracy at the Regional Office and then forwarded to head office for central computer processing.

In addition to reporting effluent quality, STPs also report the following information:

- Municipality
- Plant name
- Treatment type
- Region and District
- Operating authority
- Watercourse, Major Basin and Minor Basin
- IJC Designation
- Design Capacity
- Population Served
- Primary (Plant) Bypass
- Secondary Bypass

This information is available in Appendix C. The Appendix is arranged by Region (Southwest, West Central, Central, Southeast, Northeast and Northwest) and by municipality. Compliance status and remedial measures are also indicated. Regional boundaries and District Offices are shown at the beginning of each section. A summary of facilities by treatment type, operating authority and estimated hydraulic loading design capacity as well as annual average daily flow is also available at the beginning of each section. Appendix D contains the bypass data.

6.0 BACKGROUND INFORMATION OF SEWAGE TREATMENT PLANTS

At the end of 1988, sanitary sewage from over 7.2 million people was collected and treated by 415 STPs in Ontario. Many of these plants also receive and treat wastewater discharged by industries. Some plants receive more than 40 % of their flow from industries. NOTE: The total number of STPs is derived as follows: plants containing more than one discharge pipe are considered as a single plant, similarly plants with multiple influent pipes but a single effluent discharge pipe are considered as a single plant.

Sanitary sewage from the remaining population, located in rural areas, are for the most part treated by private systems (septic tanks/tile field systems) serving individual residences.

Three plants started operation in 1988. They were:

Tottenham STP	Central
Kapuskasing West End STP	Northeast
Killarney Lagoon	Northeast

Table 2 summarizes STPs by treatment type, operating agency and hydraulic loading design capacity. Table 3 summarizes STPs by treatment type, operating agency and actual annual average daily flow.

STPs are operated by the MOE or Municipality. Larger facilities are usually owned and operated by the Municipality(ies) they serve, whereas, the Ministry may operate facilities for smaller municipalities.

Two hundred forty STPs were operated by the Ministry and 175 were operated by Municipalities. Although the Ministry operates a greater number of STPs than the Municipalities, it is apparent from Table 3 that Municipalities are responsible for about 4 times the actual average daily flow to surface waters than the Ministry. Conventional Activated Sludge plants contribute 70% of the flow.

STPs in Ontario have a total hydraulic loading design capacity of 6,093 x 1000 m^3/day ranging from 818 x 1000 m^3 at Toronto Main STP to 0.045 x 1000 m^3 at Carleton Lodge, Stelco Industrial Park Lagoon and Porquis Junction. Total annual average daily flow is 4,974 x 1000 m^3 ranging from 764.767 x 1000 m^3 at Toronto Main to zero flow at those plants with no discharge in 1988. The least amount of actual flow in 1988 was .030 x 1000 m^3 which occurred at Garden City Raceway Lagoon.

Table 4 summarizes annual average daily loading of BOD, SS and TP to Minor Basins. Values are based on the actual data received from the STPs. In 1988, a total of 92 tonnes/day of BOD, 98 tonnes/day of SS and approximately 5 tonnes/day of TP were discharged to receiving waters by STPs. Of the Minor Basins, Lake Ontario received the greatest loading of all 3 parameters in 1988.

TABLE 2

DESIGN CAPACITY SUMMARY - 1988

TREATMENT TYPE	NUMBER			DESIGN CAPACITY (1000M3)		
	MIN	MUN	TOT	MINISTRY	MUNICIPAL	TOTAL
PRIMARY	8	21	29	108.10	963.29	1,071.40
CONVENTIONAL ACTIVATED SLUDGE	32	56	88	979.18	3,204.64	4,183.82
MODIFIED ACTIVATED SLUDGE	1	0	1	12.27	0.00	12.27
CONTACT STABILIZATION	6	6	12	23.09	35.86	58.96
EXTENDED AERATION	67	31	98	134.02	101.39	235.41
TRICKLING FILTER	0	1	1	0.00	0.91	0.91
HIGH RATE	3	2	5	18.68	77.28	95.96
OXIDATION DITCH	9	2	11	11.04	8.05	19.10
COMMUNAL SEPTIC TANK	2	4	6	2.01	1.04	3.06
AERATED LAGOON	3	3	6	6.66	12.67	19.34
CONVENTIONAL LAGOON CONTINUOUS	6	12	18	7.15	32.75	39.91
CONVENTIONAL LAGOON SEASONAL	73	25	98	65.22	131.95	197.17
LAGOON AND SPRAY	3	1	4	1.51	0.36	1.88
AERATED CELL PLUS LAGOON	14	6	20	72.35	10.44	82.80
CONVENTIONAL LAGOON ANNUAL	9	1	10	4.45	1.22	5.67
EXFILTRATION LAGOON	4	3	7	4.41	2.19	6.60
ROTATING BIOLOGICAL CONTACTOR	0	1	1	0.00	58.18	58.18
TOTALS	240	175	415	1,450.21	4,642.30	6,092.51

1000M3/D: THOUSANDS OF CUBIC METERS PER DAY
ADF : AVERAGE DAILY FLOW

TABLE 3

AVERAGE DAILY FLOW SUMMARY - 1988

TREATMENT TYPE	NUMBER			ANNUAL ADF (1000M3)		
	MIN	MUN	TOT	MINISTRY	MUNICIPAL	TOTAL
PRIMARY	8	21	29	74.19	893.53	967.72
CONVENTIONAL ACTIVATED SLUDGE	32	56	88	738.34	2,743.06	3,481.40
MODIFIED ACTIVATED SLUDGE	1	0	1	9.90	0.00	9.90
CONTACT STABILIZATION	6	6	12	20.70	22.52	43.22
EXTENDED AERATION	67	31	98	75.07	69.87	144.94
TRICKLING FILTER	0	1	1	0.00	0.62	0.62
HIGH RATE	3	2	5	12.43	66.55	78.98
OXIDATION DITCH	9	2	11	6.92	6.15	13.07
COMMUNAL SEPTIC TANK	2	4	6	0.22	0.07	0.29
AERATED LAGOON	3	3	6	4.64	9.48	14.12
CONVENTIONAL LAGOON CONTINUOUS	6	12	18	9.19	24.09	33.28
CONVENTIONAL LAGOON SEASONAL	73	25	98	48.32	26.43	74.75
LAGOON AND SPRAY	3	1	4	0.94	0.00	0.94
AERATED CELL PLUS LAGOON	14	6	20	34.68	9.02	43.70
CONVENTIONAL LAGOON ANNUAL	9	1	10	2.48	0.56	3.04
EXFILTRATION LAGOON	4	3	7	1.38	4.57	5.95
ROTATING BIOLOGICAL CONTACTOR	0	1	1	0.00	58.50	58.50
TOTALS	240	175	415	1,039.40	3,935.02	4,974.42

1000M3/D: THOUSANDS OF CUBIC METERS PER DAY
ADF : AVERAGE DAILY FLOW

TABLE 4

LOADING OF BIOCHEMICAL OXYGEN DEMAND, SUSPENDED SOLIDS, AND TOTAL PHOSPHOROUS TO THE MINOR BASINS

MINOR BASIN	NO. OF PLANTS	ADF 1000 M3/D	AVG. CONCENTRATION (MG/L)			AVERAGE LOADING (TONNES/DAY)		
			BOD	SS	TP	BOD	SS	TP
ERIE	103	853.24	15.48	15.31	0.70	13.21	13.06	0.60
HURON	114	405.22	14.64	14.28	1.12	5.93	5.78	0.45
JAMES BAY	31	58.92	18.02	28.79	2.24	1.06	1.70	0.13
LAKE WINNIPEG EAST	13	34.10	15.42	20.36	2.00	0.53	0.69	0.07
ONTARIO	77	2808.45	13.62	16.32	0.71	38.25	45.85	1.99
OTTAWA RIVER	51	569.42	40.78	37.61	2.22	23.22	21.41	1.26
ST. LAWRENCE	13	148.44	31.23	25.25	0.95	4.64	3.75	0.14
SUPERIOR	13	96.63	56.04	62.39	1.17	5.42	6.03	0.11
TOTAL	415	4974.42				92.25	98.28	4.76

7.0 1988 STATUS ON EFFLUENT GUIDELINE ASSESSMENT

7.1 PLANTS NOT ASSESSED AGAINST EFFLUENT GUIDELINES

Of the 415 STPs in Ontario, 53 have not been assessed against Ministry effluent guidelines because they did not provide sufficient data for assessment. Sufficient data is defined as 9 or more monthly observations for continuous discharge facilities in 1988 and 1 sample/month of discharge for seasonal and annual lagoons during their discharge. The 53 plants can be divided into the following categories:

1. No discharge to surface water

   Thirty-two of the 53 plants have no discharge to surface waters. Many of these are exfiltration facilities or lagoons that did not require discharge in 1988. Table 5 summarizes these plants.

2. Insufficient data with reason

   Seven STPs that were not assessed have a justifiable reason for insufficient data. Their plants were being upgraded or operations were being started in 1988. These plants are included in Table 6.

3. Insufficient data with no reason

   The remaining 14 facilities did not provide satisfactory explanation to the Ministry why incomplete data for assessment were reported. These plants are listed in Table 7.

TABLE 5
STPs WITH NO DISCHARGE TO SURFACE WATER

Southwest	
Markdale Lagoon*	Exfiltration
McGregor Lagoon*	Lagoon and Spray
Oil City Lagoon*	No Discharge in 1988
Oil Springs Lagoon*	No Discharge in 1988
Tobermory Lagoon	Exfiltration
Thedford Lagoon*	No Discharge in 1988
West Central	
Airport STP	No Discharge in 1988
Cainsville Lagoon	No Discharge in 1988
West Plant STP	No Discharge in 1988
Central	
Beaverton River 1 Lagoon(Sunderland)	No Discharge in 1988
Beeton Lagoon*	Exfiltration
Omemee Lagoon*	Lagoon and Spray
Wasaga Beach STP*	Exfiltration
Southeast	
Lansdowne Lagoon*	Lagoon and Spray
Munster Lagoon	Lagoon and Spray
Northeast	
Capreol Lagoon	Exfiltration
Dubreuiville Lagoon*	Exfiltration
Harty Lagoon	No Discharge in 1988
Holtyre WPCP	Phasing Out Facility
Jogues Lagoon	No Discharge in 1988
Killarney Lagoon* (new plant)	No Discharge in 1988
Larder Lake	Exfiltration
Mattawa Lagoon	Exfiltration
Opasitika Lagoon*	No Discharge in 1988
Temagami Lagoon*	No Discharge in 1988
Warren Lagoon*	No Discharge in 1988
White River Lagoon*	No Discharge in 1988
Northwest	
Beardmore Lagoon*	Exfiltration
Caramat Lagoon	Exfiltration
Madsen STP*	No Discharge in 1988
Terrace Bay Lagoon	Exfiltration
Terrace Bay WPCP	Mechanical Plant to Exfiltration Lagoon

* Ministry Operated

TABLE 6
SEWAGE TREATMENT PLANTS REPORTING A REASON FOR INSUFFICIENT DATA FOR ASSESSMENT

Central	
Cookstown*	New Plant
Tottenham Lagoon	Phasing Out Facility
Tottenham STP*	New Plant
Southeast	
Carlton Lodge STP	Phasing out Facility
Northeast	
Brunetville Lagoon	Flow Diverted to Kapuskasing STP
Cochrane STP	Municipal Strike
Kapuskasing West End	New Plant

* Ministry Operated

TABLE 7
SEWAGE TREATMENT PLANTS REPORTING INSUFFICIENT DATA FOR ASSESSMENT

Southwest
- Sarnia STP (BOD only)
- Strathroy Lagoon

West Central
- Garden City Raceway Lagoon
- Townsend Lagoon*

Central
- Cardiff Lagoon (SS only)
- Elmvale Lagoon (SS and TP only)
- Port Carling STP (SS only)

Southeast
- Bancroft STP (BOD only)
- Deloro STP*
- Williamsburg P.V. Lagoon

Northeast
- Cecile Trailer Park Lagoon
- Earlton Lagoon
- Moosonee STP (Old Townsite)*
- Moosonee STP (North)*

* Ministry Operated

7.2 PLANTS MEETING EFFLUENT GUIDELINES

A total of 362 plants were assessed against MOE effluent guidelines. Table 8 shows that 253 plants (70 % of the total assessed) met all of the Ministry effluent guideline requirements. The percentage of plants complying this year has improved over last year. In 1987, 63 % or 233 out of 371 plants assessed were in compliance.

This year, 96 % of the STPs assessed met the annual requirement for BOD and 87 % of the STPs met the SS annual guideline. 78 % met the monthly guideline for TP, although not all STPs have a guideline criteria for TP removal. If TP were assessed on an annual average basis, as in past years, 94 % of the plants would have met the guideline limit. In 1987, 92 % of the STPs met 1 mg/l annual average concentration.

7.3 PLANTS EXCEEDING EFFLUENT GUIDELINES

One hundred nine (30 %) of the 362 plants assessed exceeded the Ministry's effluent guidelines by one or more parameters. Table 9 summarizes the number of STPs that exceeded guidelines. Further analysis indicates the following:

1. Fifteen (4 %) STPs failed BOD criteria.

2. A total of 47 (13 %) STPs exceeded the guidelines for SS. 29 of the plants are lagoons. Frequently, lagoons are high in SS due to algal blooms and scouring of bottom sediment from wind action. Controlling algae in lagoon effluent is a universal problem. In consideration of this difficulty, the United States Environmental Protection Act has allowed higher BOD and SS effluent limits for lagoons.

3. Sixty-one continuous discharge STPs and 17 seasonal or annual lagoons (22 % of the total STPs assessed) exceeded the limit for TP in one or more months of 1988. Of the continuous discharge plants, 24 exceeded the limit one month, 19 exceeded 2 or 3 months and 18 exceeded four or more months. This implies that few plants are chronic offenders with respect to TP. Only 18 (5 %) STPs have TP concentrations greater than 1 mg/l on an annual basis, which was the compliance standard used prior to 1985. Table 10 summarizes the number of continuous discharge plants exceeding TP limits on a per month basis. Diagram 1 depicts this trend schematically.

TABLE 8
SUMMARY FOR SEWAGE TREATMENT PLANTS
MEETING EFFLUENT GUIDELINES CRITERIA

Region	Total Number of S.T.P. s	Number of S.T.P. s Assessed	Number of S.T.P. s Meeting Criteria for			
			All Parameters	* BOD	* SS	+ TP
SOUTHWEST	104	96	64	95	79	77
WEST CENTRAL	57	52	31	49	45	35
CENTRAL	77	67	51	64	62	53
SOUTHEAST	66	60	38	57	50	42
NORTHEAST	84	65	50	61	59	57
NORTHWEST	27	22	19	21	20	20
TOTAL (1988)	415	362	253 (70%)	347 (96%)	315 (87%)	284 (78%)

The figures within the parentheses are the percentages of the parameter as compared to the plants assessed.

* SS and BOD are assessed on an annual basis.
+ TP is assessed on a monthly basis; one or more months out of compliance means the plant is out of compliance for the year.

TABLE 9
SUMMARY FOR SEWAGE TREATMENT PLANTS
EXCEEDING EFFLUENT GUIDELINES CRITERIA

Region	Total Number of S.T.P. s	Number of S.T.P. s Assessed	S.T.P. s not Meeting Criteria for			
			One or MORE Parameters	* BOD	* SS	+ TP
SOUTHWEST	104	96	32	1	17	19
WEST CENTRAL	57	52	21	3	7	17
CENTRAL	77	67	16	3	5	14
SOUTHEAST	66	60	22	3	10	18
NORTHEAST	84	65	15	4	6	8
NORTHWEST	27	22	3	1	2	2
TOTAL (1988)	415	362	109 (30%)	15 (4%)	47 (13%)	78 (22%)

The figures within the parentheses are the percentages of the parameter as compared to the plants assessed.

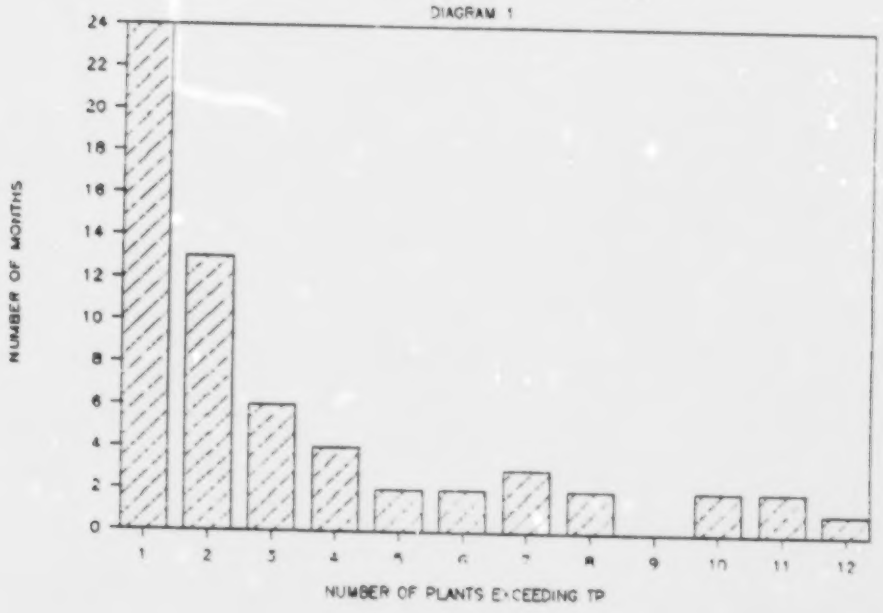
* SS and BOD are assessed on an annual basis.
+ TP is assessed on a monthly basis; one or more months out of compliance means the plant is out of compliance for the year.

TABLE 10
CONTINUOUS DISCHARGE PLANTS EXCEEDING TOTAL PHOSPHORUS LIMITS

REGION	NUMBER OF MONTHS EXCEEDING TP LIMIT											
	1	2	3	4	5	6	7	8	9	10	11	12
SOUTHWEST	5	2	2	1	0	0	0	1	0	0	1	0
WEST CENTRAL	7	4	1	1	1	1	1	0	0	0	0	0
CENTRAL	5	3	1	1	1	0	0	0	0	1	0	0
SOUTHEAST	4	2	1	1	0	0	2	1	0	1	1	1
NORTHEAST	2	2	1	0	0	0	0	0	0	0	0	0
NORTHWEST	1	0	0	0	0	1	0	0	0	0	0	0
TOTAL	24	13	6	4	2	2	3	2	0	2	2	1

OVERALL TOTAL = 61

Continuous Discharge Plants Exceeding Total Phosphorus Limits



7.4 PLANTS EXCEEDING EFFLUENT LIMITS TWO AND THREE SUCCESSIVE YEARS

Forty-nine plants failed to meet Ministry guidelines three years in a row. Table 11 lists those plants failing three consecutive years.

Forty-eight of these plants have remedial action plans in place. One, Kingsville Lagoon from Southwest Region, failed effluent guidelines three years in a row and has not reported any remedial actions to the MISA Office of the Water Resources Branch.

TABLE 11-1

PLANTS EXCEEDING EFFLUENT GUIDELINES FOR THREE SUCCESSIVE YEARS

REGION : SOUTHWEST

FACILITY	1988			1987			1986			REMEDIAL PROGRAM
	BOD	SS	TP	BOD	SS	TP	BOD	SS	TP	
+AYLMER LAGOON			*			*			*	YES
+BLENHEIM LAGOON		*	*		*			*	*	YES
+DRESDEN WPCP		*	*			*		*	*	YES
+DUTTON LAGOON		*			*	*		*	*	YES
+FOREST LAGOON		*			*			*		YES
GODERICH WPCP			*			*			*	YES
+GRAND BEND LAGOON		*	*		*			*		YES
+INGERSOLL NEW WPCP			*			*			*	YES
KINGSVILLE LAGOON		*				*			*	NO
+LISTOWEL LAGOON			*			*			*	YES
+MERLIN PV LAGOON		*			*			*		YES
+POINT EDWARD WPCP	*		*			*			*	YES
+PORT BURWELL WPCP			*			*			*	YES
+PORT LAMBTON LAGOON		*			*			*		YES
+RIDGETOWN LAGOON		*	*	*	*	*		*	*	YES
+RODNEY LAGOON		*		*	*	*	*	*	*	YES
+TAVISTOCK LAGOON		*		*	*	*			*	YES

+ Operated by the Ministry of the Environment

TABLE 11-2

PLANTS EXCEEDING EFFLUENT GUIDELINES FOR THREE SUCCESSIVE YEARS

REGION : WEST CENTRAL

FACILITY	1988			1987			1986			REMEDIAL PROGRAM
	BOD	SS	TP	BOD	SS	TP	BOD	SS	TP	
ANGER AVE.WPCP	*	*	*			*		*	*	YES
+BADEN WPCP			*			*			*	YES
CRYSTAL BEACH WPCP			*		*	*		*	*	YES
+ELMIRA WPCP			*			*			*	YES
+HESPELER WPCP		*	*			*	*	*	*	YES
+PALMERSTON WPCP	*	*		*	*		*	*		YES
+PORT DOVER WPCP			*			*			*	YES
+ST.JACOBS PV WPCP		*	*			*			*	YES
+WATERLOO WPCP			*			*			*	YES

+ Operated by the Ministry of the Environment

TABLE 11-3

PLANTS EXCEEDING EFFLUENT GUIDELINES FOR THREE SUCCESSIVE YEARS

REGION : CENTRAL

FACILITY	1988			1987			1986			REMEDIAL PROGRAM
	BOD	SS	TP	BOD	SS	TP	BOD	SS	TP	
BRIGHTON LAGOON			*			*			*	YES
COBOURG WPCP NO 1	*		*			*			*	YES
COLLINGWOOD WPCP			*			*			*	YES
CORBETT CREEK WPCP	*	*	*			*			*	YES
HUMBER WPCP (ETOBICOKE)			*			*			*	YES
STAYNER LAGOON	*	*	*	*	*	*	*	*	*	YES

+ Operated by the Ministry of the Environment

TABLE 11-4

PLANTS EXCEEDING EFFLUENT GUIDELINES FOR THREE SUCCESSIVE YEARS

REGION : SOUTHEAST

FACILITY	1988			1987			1986			REMEDIAL PROGRAM
	BOD	SS	TP	BOD	SS	TP	BOD	SS	TP	
+AMHERSTVIEW LAGOON		*			*			*		YES
ARNPRIOR WPCP	*	*	*	*	*	*	*	*	*	YES
BROCKVILLE WPCP			*			*			*	YES
+CARLETON PLACE WPCP		*	*		*	*		*	*	YES
CORNWALL WPCP	*		*	*		*	*		*	YES
GREEN CREEK WPCP	*	*	*		*	*		*	*	YES
KEMPTVILLE WPCP		*	*		*	*			*	YES
+MERRICKVILLE WPCP			*		*	*		*	*	YES
NAPANEE WPCP			*		*	*		*	*	YES
SMITHS FALLS WPCP			*		*	*		*	*	YES

+ Operated by the Ministry of the Environment

TABLE 11-5

PLANTS EXCEEDING EFFLUENT GUIDELINES FOR THREE SUCCESSIVE YEARS

REGION : NORTHEAST

FACILITY	1988			1987			1986			REMEDIAL PROGRAM
	BOD	SS	TP	BOD	SS	TP	BOD	SS	TP	
BOB'S LAKE LAGOON	*			*			*	*		YES
FALCONBRIDGE TOWNSITE WPC	*	*		*	*		*	*		YES
+KIRKLAND LAKE WPCP			*			*			*	YES
+NORTH BAY WPCP			*			*			*	YES
VAL-RITA LAGOON			*			*			*	YES

+ Operated by the Ministry of the Environment

TABLE 11-6

PLANTS EXCEEDING EFFLUENT GUIDELINES FOR THREE SUCCESSIVE YEARS

REGION : NORTHWEST

FACILITY	1988			1987			1986			REMEDIAL PROGRAM
	BOD	SS	TP	BOD	SS	TP	BOD	SS	TP	
+ATIKOKAN WPCP			*			*			*	YES
THUNDER BAY WPCP		*	*			*			*	YES

+ Operated by the Ministry of the Environment

8.0 1988 STATUS ON C OF A ASSESSMENT

8.1 PLANTS NOT ASSESSED AGAINST C of A

The 1988 Discharge Report is the first to assess some STPs against their C of A. Most certificates issued before 1985 did not specify compliance limits, but rather design or objective limits. Fifty percent of the C of A identified to date fall into this category. These C of A will not be assessed in this Discharge Report, since they were intended as a guidance rather than a regulatory document.

In more recent years, C of A have taken on a more regulatory role of indicating when STPs are in or out of compliance. New STPs have compliance limits clearly outlined. Many of the older C of A are being rewritten as STPs are upgraded or expanded.

The complexity of each C of A, as well as the limitations of the MOE computer system, limited the number of STPs that could be assessed in 1988. As a result, 15 STPs were evaluated against their C of A. The effluent limits stipulated in these C of A are presented in Appendix C along with the plant monthly average data.

The 1989 Discharge Report will assess more STPs against their C of A.

8.2 PLANTS COMPLYING WITH C of A

Eleven of the 15 plants assessed complied with the limits outlined in their C of A. Table 12 summarizes the number of plants by Region, that meet their C of A limits.

8.3 PLANTS NON-COMPLYING WITH C of A

The following plants failed to comply with the limits as set out in their C of A:

Aylmer Lagoon	Southwest Region
Kingsville Lagoon	Southwest Region
Barrie WPCP	Central Region
Orillia STP	Central Region

Table 13 summarizes the number of plants by Region, failing their C of A limits.

TABLE 12
SUMMARY FOR SEWAGE TREATMENT PLANTS
MEETING CERTIFICATE OF APPROVAL CRITERIA

Region	Total Number of S.T.P. s	Number of S.T.P. s Assessed	Number of S.T.P. s Meeting Criteria for			
			All Parameters	* BOD	* SS	+ TP
SOUTHWEST	7	7	5	6	5	6
WEST CENTRAL	2	2	2	2	2	2
CENTRAL	5	5	3	4	5	3
SOUTHEAST	0	0	0	0	0	0
NORTHEAST	1	1	1	1	1	1
NORTHWEST	0	0	0	0	0	0
TOTAL (1988)	15	15	11 (73%)	13 (87%)	13 (87%)	12 (80%)

The figures within the parentheses are the percentages of the parameter as compared to the plants assessed.

* SS and BOD are assessed on an annual basis.
+ TP is assessed on a monthly basis; one or more months out of compliance means the plant is out of compliance for the year.

TABLE 13
SUMMARY FOR SEWAGE TREATMENT PLANTS
EXCEEDING CERTIFICATE OF APPROVAL CRITERIA

Region	Total Number of S.T.P. s	Number of S.T.P. s Assessed	S.T.P. s not Meeting Criteria for			
			One or MORE Parameters	* BOD	* SS	+ TP
SOUTHWEST	7	7	2	1	2	1
WEST CENTRAL	2	2	0	0	0	0
CENTRAL	5	5	2	1	0	2
SOUTHEAST	0	0	0	0	0	0
NORTHEAST	1	1	0	0	0	0
NORTHWEST	0	0	0	0	0	0
TOTAL (1988)	15	15	4 (27%)	2 (13%)	2 (13%)	3 (20%)

The figures within the parentheses are the percentages of the parameter as compared to the plants assessed.

* SS and BOD are assessed on an annual basis.
+ TP is assessed on a monthly basis; one or more months out of compliance means the plant is out of compliance for the year.

9.0 ABATEMENT OF STP OPERATIONS

Inspections are carried out at municipally operated STPs by Regional MOE Abatement Officers to identify, prevent or review agreed upon abatement actions or recommend new actions for plant operational problems. During site visits, MOE staff visually inspect the STP facility and discuss operational procedures with the operating authority. The operating authority is formally made aware of any deficiencies by way of inspection reports or control documents. If warranted, follow up inspections are scheduled until the identified problems are corrected. The responsibility for implementing remedial programs is that of the operating authority. Failure to comply with control documents may result in prosecution by the Investigations and Enforcement Branch.

At Ministry operated facilities assessment is continually being carried out by regional staff responsible for these facilities. Daily operations are controlled by on-site staff employed by the Ministry. Major capital improvements must be approved by municipal authorities.

10.0 REMEDIAL MEASURES

All STPs that are not performing effectively must develop a remedial action plan to either upgrade their treatment processes and/or improve their operating procedures.

68 STPs exceeding effluent guidelines in 1987 (51 of which reported remedial programs) improved their operations or upgraded their facilities sufficiently to meet Ministry guidelines in 1988. Sixty-three STPs continued to exceed effluent guidelines in 1988, in spite of remedial programs. Unfortunately, 36 plants that complied in 1987, exceeded the limits in 1988. All STPs should strive to consistently meet effluent guideline limits.

Currently, 97 (89%) of the 109 plants exceeding effluent guidelines have some form of remedial action. Appendix A includes a summary of plants which have remedial action in 1988. Appendix C elaborates on these remedial actions on a plant specific basis.

The number of plants that reported remedial action is summarized as follows: West Central and Northwest have remedial programs for all of the plants failing effluent guideline limits in their Region. Southwest has 28 plants (88%) with remedial action out of 32 plants that exceeded effluent guideline limits. Central has 14 (88%) plants out of 16 that have remedial action. Southeast has 21 (95%)

plants out of 22 that have reported remedial action. Ten plants (67%) out of 15 reported remedial action in Northeast Region.

Kingsville Lagoon failed effluent guideline limits for three successive years and has not reported any remedial programs to the Water Resources Branch of the MOE.

11.0 ENFORCEMENT

The Investigations and Enforcement Branch (IEB) are contacted if a STP fails to comply with a Control Document or fails to report an environmental incident eg. a spill.

The current procedure for responding to an environmental incident requires a Provincial Officer or Emergency Response Person (ERP) to make an initial response. Information obtained during this initial response is essential to the success of any investigation that follows.

Prosecution may follow if the violation poses a significant risk or adverse effect to the environment or humans; the violation is deliberate in nature or if there is a degree of negligence involved; the violation was repeated or warning was disregarded; the violator has concealed information; the violator has an unsatisfactory record with Ministry orders.

Guidelines themselves are not legally enforceable but may form the basis to prove an offence through expert testimony in court. The expert must provide evidence to show the level over the limit is a violation under the Environmental Protection Act.

Enforcement actions that took place in 1988 against STPs are summarized in Table 14.

TABLE 14
ENFORCEMENT ACTIVITIES THAT HAVE GONE TO COURT AGAINST MUNICIPAL SEWAGE TREATMENT PLANTS IN 1988

COMPANY	OFFENCE DATE AND DESCRIPTION	DISPOSITION
1. Regional Municipality of Sudbury NE Region	Nov. 15, 1987. Permitted discharge of raw sewage into environment. Failure to notify Ministry	Trial set for Nov. 29, 1989. Court dates throughout 1988.
2. District Municipality of Muskoka C Region	Between Oct. 31, 1986 to Feb. 16, 1987. Discharge of contaminant into natural environment. Operating STP with no permit.	Court dates through 1988. Municipality pleaded guilty and fined $ 2,500.00
3. Corp. of the Town of Bracebridge C Region	Dec. 17, 1986. Discharge of sewage from pumping station into Muskoka River.	Court dates through 1988. Pleaded guilty and fined $ 8,500.00
4. Town of Kenora NW Region	Oct. 25, 1986. Discharge of raw sewage into Winnipeg River	Court dates through 1988. Pleaded guilty and fined $ 8,500.00

12.0 HISTORICAL REVIEW

Effluent requirements identified in Policy 08-01 were implemented in early 1983. For comparative purposes, the same requirements were applied to compare the STP compliance status from 1981 to 1988.

Table 15 compares STPs exceeding effluent guidelines on an annual average basis from 1981 to 1988. 1985, 1986, 1987 and 1988 phosphorus assessment was done on an annual average basis for comparative purposes only.

STPs have shown an improvement in complying with effluent guidelines when facilities are assessed on an annual average basis from 1981 to 1988, as shown in Table 15. A comparison of assessing effluent guideline status between 1981 and 1988 can be biased due to changes in criteria for assessing insufficient data.

The TP compliance criteria was changed from an annual to a monthly basis in 1983. Monthly TP has been reported since 1985. Table 16 compares the total facilities exceeding monthly TP requirements from 1985 to 1988. A steady improvement in compliance with TP has been observed over the past five years eg. 53 % of the plants requiring phosphorus removal were out of compliance in 1985 but only 30 % were out of compliance in 1988.

TABLE 15
NUMBER OF SEWAGE TREATMENT PLANTS
EXCEEDING ANNUAL EFFLUENT GUIDELINES
1981-1988
(All Parameters)

Year	Number of Facilities	STPs with Insufficient Data	STPs Assessed	STPs Exceeding Annual Criteria	% STPs Exceeding Criteria vs. STPs
1981	389	NR	< 389	94	>24
1982	392	NR	< 392	107	>27
1983	391	NR	< 391	100	>26
1984	400	14 *	386	89	23
1985	403	20 **	383	99	26
1986	407	17 ***	362	66	18
1987	412	8 ***	371	73	20
1988	415	14 ***	362	58	16

< - less than
> - greater than
NR - Not Recorded
* - Minimum of 1 month of data reported
** - Minimum of 6 months of data reported
*** - Minimum of 9 months of data reported

TABLE 16
NUMBER OF SEWAGE TREATMENT PLANTS
EXCEEDING MONTHLY TOTAL PHOSPHORUS LIMITS
1985-1988

Year	Total Number of Facilities with Phosphorus Removal	Number of Facilities Exceeding Monthly Requirements	% Facilities Exceeding Monthly
1985	250	132	53
1986	258	126	49
1987	262	100	38
1988	265	78	30

13.0 BYPASSES

Bypass data reported in this report is limited to the bypass that occurs within the boundary of a STP. Bypass occurring outside a STP, including pumping stations located outside the plant property is considered as combined sewer overflow and is not considered in this report.

Primary bypass is the discharge of raw sewage. Secondary bypass is wastewater that has received partial treatment at the primary clarifiers of an STP but bypassed the biological treatment process.

Bypasses may occur for a number of reasons such as:

1. An increase in hydraulic loading due to infiltration or inflow from a storm event or spring thaw;

2. Operational problems eg. equipment breakdown;

3. STP is under-sized.

Often bypasses are necessary during storm events or spring thaw to prevent solids from being washed out from the biological treatment process in a secondary plant or to prevent flooding of the STPs and surrounding areas eg. residential basements. Other times, bypasses can be prevented by expanding the treatment plant or properly maintaining process equipment.

1987 was the first year MOE requested regional staff to report the volume, duration and number of instances of bypasses. Appendix D summarizes the 1988 monthly bypass data for mechanical STPs only, since lagoons typically bypass at off-site locations which are considered Combined Sewer Overflows.

One hundred thirty-three or 54% of the total number of mechanical STPs (245) reported bypass data in 1988. Sixty-three (26%) of the mechanical plants reported no bypass occurrences. Seventy (29%) of the mechanical plants reported one or more bypass(es).

A number of deficiencies in the database were identified as follows:

1. There are many gaps in the database. Only 4 plants submitted the complete set of data for volume, duration and number of instances for raw sewage bypass and 2 plants for secondary bypass.

2. Most STP's do not have flow monitoring devices for bypasses , thus resulting in poorly estimated volume.

3. Frequently, there are no devices to record the occurrence of a bypass. Bypass occurring when the plant is not staffed would go unnoticed. As a result, the number of instances and duration of bypasses can be higher than the data reported.

Keeping these deficiencies in mind, Table 17 which summarizes the total volume, duration, number of instances and ratio of volume of bypass to treated effluent for raw sewage bypass and secondary bypass should be treated as cursory information only.

TABLE 17

SUMMARY OF PLANT AND SECONDARY BYPASSES

	PLANT BYPASS				SECONDARY BYPASS			
	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	*RATIO	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	*RATIO
TOTAL	3613.77	3,041.8	1313	0.33%	2000.11	2,129.3	652	0.18%
MAXIMUM	889.10	772.5	195	234.33%	653.70	1,376.0	224	6.49%
MINIMUM	0.05	0.2	1	0.01%	0.59	0.7	1	0.02%

* RATIO(%) IS THE RATIO OF BYPASS EFFLUENT OVER TREATED EFFLUENT (EXPRESSED AS A PERCENT)

Table 17 indicates that the volume of raw sewage bypass was greater than secondary bypass by 28 %. In 1988, Carleton Place bypassed raw sewage for the longest duration of 773 hours. Carleton Place bypassed for the longest duration in 1987 as well. Deloro bypassed the greatest percentage of its total treated effluent (234%) although the accuracy of the flow measuring device is suspect at this plant.

Windsor Little River discharged the greatest volume (889 X 1000 m^3) of raw sewage bypass this year as well as in 1987. Sturgeon Falls bypassed raw sewage 195 times but this constituted only 2 % of its total treated effluent.

Belleville was designed to provide primary treatment for excess flows received during wet weather. Consequently, Belleville discharged the greatest volume, number of times and longest duration of secondary bypass in 1988 and in 1987 as well.

The total amount of bypass in 1988 was less than 1987 bypass by 3,784 X 1000 m^3. Raw sewage bypass decreased by 992.6 X 1000 m^3 and secondary bypass decreased by 2,791.06 X 1000 m^3.

14.0 MISA - PILOT MONITORING - 37 STP STUDY

MISA is a program initiated by the MOE in 1986. The goal of MISA is to virtually eliminate toxins from municipal and industrial discharges. This will be achieved by enforcing effluent limits based on Best Available Technologies Economically Achievable (BATEA). More stringent site specific limits will be enforced on those discharge into sensitive receiving streams.

The premonitoring phase of the MISA Municipal program was completed in 1988. Thirty-seven STPs were selected for the pilot monitoring study. This included 1 tertiary treatment plant, 27 secondary treatment plants, 7 primary treatment plants and 2 lagoons. Guelph polishes its secondary effluent with a rotating biological contactor (RBC) process. Effluent samples were collected both before (secondary effluent) and after (tertiary effluent) the RBC process.

This study involved intensive sampling of the influent, effluent and sludge of the 37 STPs. Over 180 contaminants were analyzed including 144 organic contaminants, 15 metals and conventional contaminants.

Results obtained in this premonitoring study are being used to develop regulations to control STP effluent and sludge quantity, and to control the discharge of industrial wastewater into municipal sewers.

A copy of the Thirty-seven Municipal Water Pollution Control Plants - Pilot Monitoring Study is available at the Communications Branch of MOE (See Section 15.0 Enquiries).

15.0 ENQUIRIES

Enquiries about specific STPs may be directed to the Ministry's Regional Offices or District Offices. These addresses and phone numbers are available in Appendix B at the beginning of each Regional section.

Copies of this report or the Thirty-Seven Municipal Water Pollution Control Plants report are available from:

Communications Branch,
Ministry of the Environment,
135 St. Clair Ave. W., 6th Floor,
Toronto, Ontario
M4V 1P5
323-4321

Enquiries concerning this report may be directed to:

Ministry of the Environment,
MISA Municipal Office,
Water Resources Branch,
1 St. Clair Ave. W., 7th Floor,
Toronto, Ontario.
M4V 1K6
323-4995

APPENDIX A

WASTEWATER TREATMENT FACILITIES
EXCEEDING EFFLUENT REQUIREMENTS
FOR 1988

EXPLANATORY NOTES FOR APPENDIX A

BOD and SS are assessed on an annual basis.

TP is assessed on a monthly basis. The value associated with the TP column is the number of months per year that the TP limit was exceeded.

SEWAGE TREATMENT PLANTS
EXCEEDING EFFLUENT REQUIREMENTS IN 1988

REGION : SOUTHWEST

PLANT NAME	1988 EXCEEDANCES					REMEDIAL PROGRAM	ANTICIPATED COMPLIANCE
	BOD	SS	TP	1987	1986		
+AYLMER LAGOON			1	*	*	YES	1989/01
+BLENHEIM LAGOON		55.1	1	*	*	YES	1989
CHATHAM WPCP			3	*		YES	1989
CHESLEY LAGOON			3	*		NO	
+COTTAM LAGOON		54.1		*		YES	1989
+DRESDEN WPCP		39.1	4	*	*	YES	1989/01/01
+DUTTON LAGOON		41.1		*	*	YES	1991/01
+FOREST LAGOON		156.6		*	*	YES	1989/01
+GLENCOE LAGOON		49.3				YES	1989
GODERICH WPCP			1	*	*	YES	
+GRAND BEND LAGOON		50.5	1	*	*	YES	1989/01
+INGERSOLL NEW WPCP			1	*	*	YES	1988/07
+KINCARDINE LAGOON			8			YES	1989/03
KINGSVILLE LAGOON		41.0		*	*	NO	
+LISTOWEL LAGOON			2	*	*	YES	1988/04
+MERLIN PV LAGOON		36.2		*	*	YES	1989
+MITCHELL LAGOON		58.5		*		YES	1989/01
+MITCHELL'S BAY LAGOON		35.5			*	YES	1989
+PARKHILL LAGOON			1		*	YES	1989/01
+POINT EDWARD WPCP	30%		11	*	*	YES	1992/01

NOTE:
+ = MOE OPERATED PLANT
* INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

SEWAGE TREATMENT PLANTS
EXCEEDING EFFLUENT REQUIREMENTS IN 1988

REGION : SOUTHWEST

PLANT NAME	1988 EXCEEDANCES					REMEDIAL PROGRAM	ANTICIPATED COMPLIANCE
	BOD	SS	TP	1987	1986		
+PORT BURWELL WPCP			2	*	*	YES	1988/11
+PORT LAMBTON LAGOON		46.9		*	*	YES	1989/01
+RIDGETOWN LAGOON		66.3	1	*	*	YES	1989/01
+RODNEY LAGOON		27.7		*	*	YES	1989/01
+SOMBRA LAGOON		77.8		*		YES	1989/01
+ST MARYS WPCP			1			YES	1988/02
ST THOMAS WPCP			1		*	NO	
+STONEY POINT P.V. LAGOON		26.4		*		YES	
+TAVISTOCK LAGOON		54.5		*	*	YES	1989
TILBURY LAGOON			2			YES	1989/01/01
+WALLACEBURG WPCP			1		*	YES	1988/03/01
WOODSTOCK WPCP			2			NO	

NOTE:
+ = MOE OPERATED PLANT
* INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

SEWAGE TREATMENT PLANTS
EXCEEDING EFFLUENT REQUIREMENTS IN 1988

REGION : WEST CENTRAL

PLANT NAME	1988 EXCEEDANCES					REMEDIAL PROGRAM	ANTICIPATED COMPLIANCE
	BOD	SS	TP	1987	1986		
ANGER AVE.WPCP	46%	62%	1	*	*	YES	
+ARTHUR LAGOON			1		*	YES	1991/04
+BADEN WPCP			1	*	*	YES	
+BRANTFORD WPCP			1	*		YES	
CRYSTAL BEACH WPCP			6	*	*	YES	
+ELMIRA WPCP			2	*	*	YES	1989
+FERGUS WPCP		37.6		*		YES	1990/01/01
+GRAND VALLEY WPCP			1		*	YES	
+HESPELER WPCP		30.3	7	*	*	YES	1990/12
+KITCHENER WPCP			1	*		YES	
MOUNT FOREST WPCP			2	*		YES	1988/03
+OSWEGO PARK LAGOON	38.7	53.2				YES	
+PALMERSTON WPCP	75.1	78.7		*	*	YES	1988/12
+PORT DOVER WPCP			1	*	*	YES	1991
SEAWAY WPCP			2		*	YES	
+SHELBURNE WPCP			1			YES	1988/11
+SIMCOE WPCP			2			YES	
SMITHVILLE LAGOON		56.7		*		YES	
+ST.JACOBS PV WPCP		28.8	3	*	*	YES	1991/01/01
+WATERLOO WPCP			4	*	*	YES	

NOTE:
+ = MOE OPERATED PLANT
* INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

SEWAGE TREATMENT PLANTS
EXCEEDING EFFLUENT REQUIREMENTS IN 1988

REGION : WEST CENTRAL

PLANT NAME	1988 EXCEEDANCES					REMEDIAL PROGRAM	ANTICIPATED COMPLIANCE
	BOD	SS	TP	1987	1986		
WOODWARD AVE.WPCP			5	*		YES	1988/06

NOTE:
+ = MOE OPERATED PLANT
* INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

SEWAGE TREATMENT PLANTS
EXCEEDING EFFLUENT REQUIREMENTS IN 1988

REGION : CENTRAL

PLANT NAME	1988 EXCEEDANCES					REMEDIAL PROGRAM	ANTICIPATED COMPLIANCE
	BOD	SS	TP	1987	1986		
BALA WPCP		18%		*		YES	1991
BRIGHTON LAGOON			4	*	*	YES	1989/01/01
+CLARKSON WPCP			2			YES	1989
COBOURG WPCP NO 1	26.3		5	*	*	YES	1989/12
COLLINGWOOD WPCP			2	*	*	YES	1989
CORBETT CREEK WPCP	32.7	29.6	10	*	*	YES	1990
DUFFIN CREEK WPCP			1		*	YES	1988/02
+HASTINGS WPCP			1	*		YES	1988/02
HUMBER WPCP (ETOBICOKE)			1	*	*	YES	
LAKEFIELD LAGOON		41.0	1		*	YES	1990/01/01
LINDSAY LAGOON			1	*		YES	1990/01/01
NORTH TORONTO WPCP			2			YES	1988/04/01
ORILLIA WPCP			3			NO	
PENETANGUISHENE WPCP			1			NO	
STAYNER LAGOON	68.7	60.4	3	*	*	YES	
WARKWORTH LAGOON		34.5		*		YES	1989/01

NOTE:
+ = MOE OPERATED PLANT
* INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

SEWAGE TREATMENT PLANTS
EXCEEDING EFFLUENT REQUIREMENTS IN 1988

REGION : SOUTHEAST

PLANT NAME	1988 EXCEEDANCES					REMEDIAL PROGRAM	ANTICIPATED COMPLIANCE
	BOD	SS	TP	1987	1986		
+ALMONTE LAGOON			2		*	YES	
+AMHERSTVIEW LAGOON		62.0		*	*	YES	
ARNPRIOR WPCP	47%	52%	4	*	*	YES	1992
BROCKVILLE WPCP			11	*	*	YES	
+CANA WPCP		51.2				YES	1989
+CARLETON PLACE WPCP		36.2	7	*	*	YES	1991/04
CORNWALL WPCP	47%		1	*	*	YES	
GREEN CREEK WPCP	44%	62%	12	*	*	YES	1992/12
IROQUOIS WPCP		49%	3	*		YES	1988/12
KEMPTVILLE WPCP		68%	10	*	*	YES	1995
+MADOC LAGOON		26.6			*	NO	
+MERRICKVILLE WPCP			1	*	*	YES	
NAPANEE WPCP			7	*	*	YES	1989
+ODESSA WPCP			1		*	YES	
PICTON WPCP			2	*		YES	1989/12/31
+RUSSELL LAGOON		41.0		*		YES	1989
SMITHS FALLS WPCP			8	*	*	YES	1992
STIRLING LAGOON		61.3	1			YES	1989/05
+TRENTON WPCP			1			YES	
+TWEED LAGOON			1			YES	

NOTE:
+ = MOE OPERATED PLANT
* INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

SEWAGE TREATMENT PLANTS
EXCEEDING EFFLUENT REQUIREMENTS IN 1988

REGION : SOUTHEAST

PLANT NAME	1988 EXCEEDANCES					REMEDIAL PROGRAM	ANTICIPATED COMPLIANCE
	BOD	SS	TP	1987	1986		
WELLINGTON WPCP			2			YES	1989/12
+WESTPORT LAGOON			1	*		YES	1989

NOTE:
+ = MOE OPERATED PLANT
* INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

SEWAGE TREATMENT PLANTS
EXCEEDING EFFLUENT REQUIREMENTS IN 1988

REGION : NORTHEAST

PLANT NAME	1988 EXCEEDANCES					REMEDIAL PROGRAM	ANTICIPATED COMPLIANCE
	BOD	SS	TP	1987	1986		
BOB'S LAKE LAGOON	32.5			*	*	YES	1991
+ENGLEHART LAGOON			2			YES	1988/04
FALCONBRIDGE TOWNSITE WPCP	28.0	40.7		*	*	YES	1989/12
+KIRKLAND LAKE WPCP			1	*	*	YES	
+LAKE TEMISKAMING OLD WPCP			2	*		NO	
+NORTH BAY WPCP			1	*	*	YES	
+NORTH COBALT LAGOON		40.6				NO	
+POWASSAN LAGOON		31.7				NO	
+ST.CHARLES LAGOON			1			YES	
+STURGEON FALLS WPCP			3	*		YES	1989
+SUNDRIDGE LAGOON		42.5				NO	
VAL-RITA LAGOON			2	*	*	YES	1989/05
+VERNER LAGOON			1	*		YES	
VIRGINIATOWN AND KEARNS WPCP	21%	0%				NO	
+WEBBWOOD LAGOON	41.3	120.4				YES	

NOTE:
+ = MOE OPERATED PLANT
* INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

SEWAGE TREATMENT PLANTS
EXCEEDING EFFLUENT REQUIREMENTS IN 1988

REGION : NORTHWEST

PLANT NAME	1988 EXCEEDANCES					REMEDIAL PROGRAM	ANTICIPATED COMPLIANCE
	BOD	SS	TP	1987	1986		
+ATIKOKAN WPCP			1	*	*	YES	1990
+SCHREIBER WPCP	28.7	29.4		*		YES	
THUNDER BAY WPCP		67%	6	*	*	YES	

NOTE:
+ = MOE OPERATED PLANT
* INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

APPENDIX B

WASTEWATER TREATMENT FACILITIES
EXCEEDING C OF A REQUIREMENTS
FOR 1988

EXPLANATORY NOTES FOR APPENDIX B

Each STP has a site specific C of A. Monitoring frequencies indicated on the C of A may vary depending on stream sensitivity and parameter being assessed. Therefore, this appendix only highlights, by an asterisk, which parameter has been exceeded. For more detailed assessment see individual plants in Appendix C.

SEWAGE TREATMENT PLANTS
EXCEEDING CERTIFICATE OF APPROVAL REQUIREMENTS IN 1988

REGION : SOUTHWEST

PLANT NAME	NON-COMPLIANCE			REMEDIAL PROGRAM(S)	ANTICIPATED COMPLIANCE
	BOD	SS	TP		
+AYLMER LAGOON	*	*	*	YES	1989/01
KINGSVILLE LAGOON		*		NO	

NOTE:
+ = MOE OPERATED PLANT
* INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

SEWAGE TREATMENT PLANTS
EXCEEDING CERTIFICATE OF APPROVAL REQUIREMENTS IN 1988

REGION : CENTRAL

PLANT NAME	NON-COMPLIANCE			REMEDIAL PROGRAM(S)	ANTICIPATED COMPLIANCE
	BOD	SS	TP		
BARRIE WPCP			*	NO	
ORILLIA WPCP	*		*	NO	

NOTE:
+ = MOE OPERATED PLANT
* INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

APPENDIX C

WASTEWATER TREATMENT FACILITIES

LISTINGS AND

OPERATING DATA

FOR 1988

ABBREVIATIONS FOR APPENDIX C

AVG .....Average

BOD .....Biochemical Oxygen Demand

INF .....Influent

kg/d .....Kilograms per day

m3 .....Cubic metres

mg/l .....Milligrams per litre

Number Exceed .....Number of months per year a STP has exceeded the effluent limit

P.V. .....Police Village

SS .....Suspended Solids

TP .....Total Phosphorus

WPCP .....Water Pollution Control Plant (same as STP)

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: CHESLEY	REGION	: SOUTHWEST
PLANT	: CHESLEY LAGOON MUN.OP.JAN'87	DISTRICT	: BRUCE
WORKS NUMBER	: 110000105	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: CONVENTIONAL LAGOON CONTINUOUS	WATERCOURSE	: NORTH SAUGEEN RIVER
	: PHOSPHORUS REMOVAL-CONTINUOUS	MINOR BASIN	: HURON
	:	MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 1.45 (1000 M3)	POPULATION SERVED	: 1,883

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.66	0.82	1.23	0.74	0.48	0.37	0.33	0.44	0.37	0.65	0.88	0.66	0.64	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5	115.0	84.0	60.6	68.0	69.0	21.4	103.0	ND	69.0	94.0	26.0	93.0	73.0	
INFLUENT (MG/L)	7.1	4.7	6.6	9.3	4.7	1.7	4.3	ND	4.1	3.4	2.8	1.3	4.5	
EFFLUENT (MG/L)													30.0	
CONCENTRATION LIMIT (MG/L)													2.88	
LOADING (KG/D)	4.68	3.85	8.11	6.88	2.25	0.62	1.41	ND	1.51	2.21	2.46	0.85		
SUSPENDED SOLIDS	156.9	89.1	66.1	74.0	70.0	47.9	111.6	ND	114.2	88.6	22.2	122.0	87.5	
INFLUENT (MG/L)	4.0	5.1	8.4	24.8	4.2	8.2	8.6	ND	13.7	3.8	2.7	1.4	7.7	
EFFLUENT (MG/L)													40.0	
CONCENTRATION LIMIT (MG/L)													5.92	
LOADING (KG/D)	2.64	4.18	10.33	18.35	2.01	3.03	2.83	ND	5.06	2.47	2.37	0.92		
TOTAL PHOSPHORUS	2.1	4.7	8.0	4.8	4.4	2.9	5.6	ND	4.7	6.8	2.1	5.5	4.7	
INFLUENT (MG/L)	0.9	0.9	1.1*	1.0	1.0	0.9	1.6*	ND	1.8*	0.6	0.4	0.5	0.9	3
EFFLUENT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
CONCENTRATION LIMIT (MG/L)													0.58	
LOADING (KG/D)	0.59	0.73	1.35	0.59	0.33	0.33	0.52	ND	0.66	0.39	0.35	0.33		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

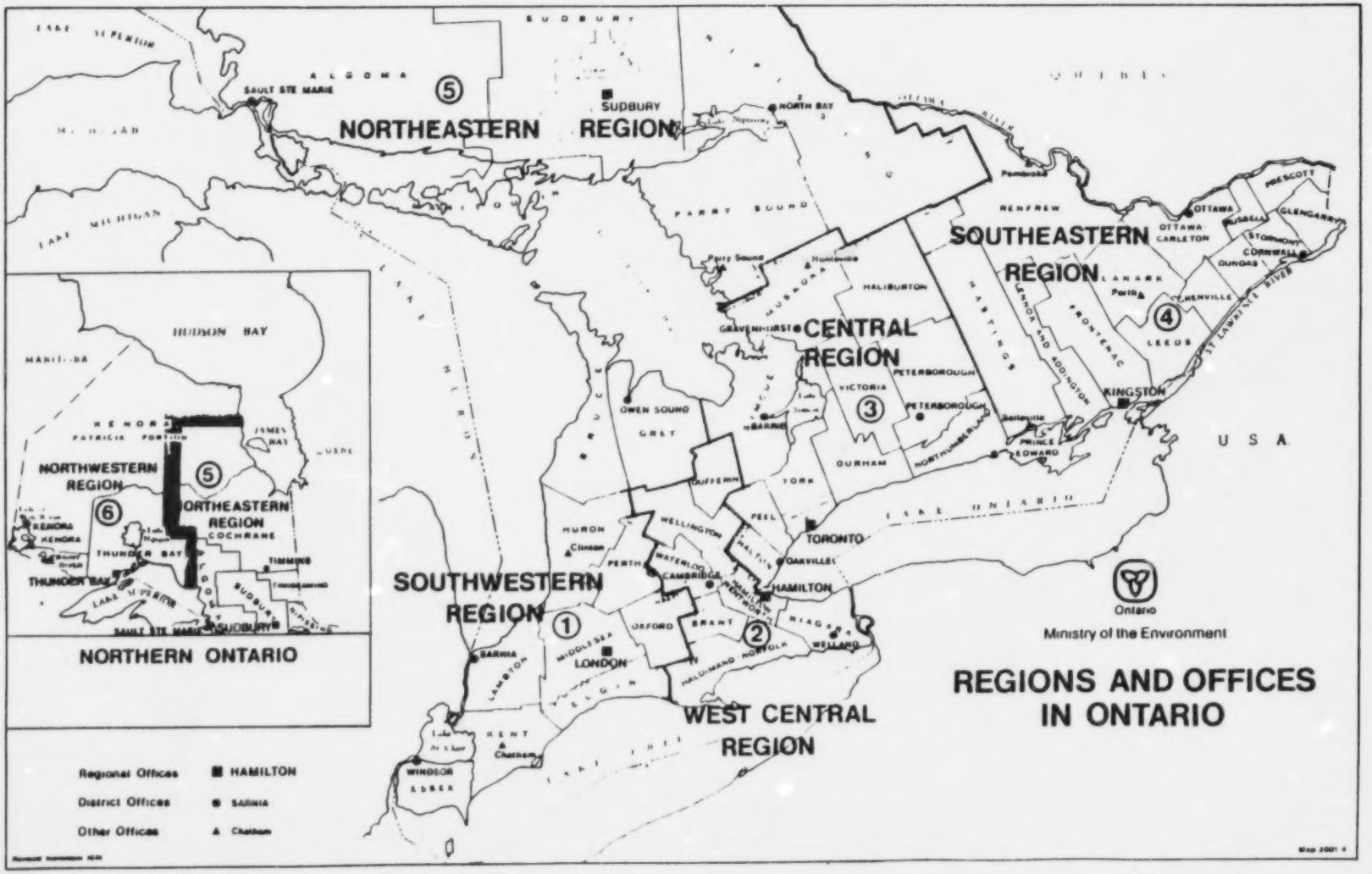
NO REMEDIAL MEASURES REPORTED

Number of months per year a STP has exceeded the effluent limit.

An annual concentration limit

A monthly concentration limit

The value indicating the number of months per year a STP has exceeded the effluent limit


NORTHEASTERN REGION
SUDBURY
SOUTHEASTERN REGION
CENTRAL REGION
SOUTHWESTERN REGION
WEST CENTRAL REGION
NORTHWESTERN REGION
NORTHEASTERN REGION
COCHRANE
NORTHERN ONTARIO
HUDSON BAY
SAULT STE MARIE
NORTH BAY
PARRY SOUND
PETERBORO
KINGSTON
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OWEN SOUND
THUNDER BAY
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District Offices ● SARNIA
Other Offices ▲ Chatham
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Ministry of the Environment
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Southwestern Region

1

Ministry of the Environment

Ontario

Southwestern Region 1

Ministry of the Environment
Ontario

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SOUTHWEST SUMMARY - 1988

TREATMENT TYPE	NUMBER			DESIGN CAPACITY (1000M3)		
	MIN	MUN	TOT	MINISTRY	MUNICIPAL	TOTAL
PRIMARY	2	3	5	27.13	237.34	264.48
CONVENTIONAL ACTIVATED SLUDGE	8	12	20	57.09	363.49	420.59
CONTACT STABILIZATION	0	1	1	0.00	1.81	1.81
EXTENDED AERATION	18	2	20	32.62	23.17	55.79
HIGH RATE	1	0	1	3.91	0.00	3.91
OXIDATION DITCH	2	1	3	3.75	6.45	10.20
AERATED LAGOON	1	2	3	1.12	8.57	9.70
CONVENTIONAL LAGOON CONTINUOUS	2	1	3	3.61	1.45	5.06
CONVENTIONAL LAGOON SEASONAL	31	3	34	34.71	6.31	41.02
LAGOON AND SPRAY	1	0	1	0.56	0.00	0.56
AERATED CELL PLUS LAGOON	7	1	8	20.21	0.16	20.38
CONVENTIONAL LAGOON ANNUAL	5	0	5	2.14	0.00	2.14
TOTALS	78	26	104	186.89	648.79	835.69

1000M3/D: THOUSANDS OF CUBIC METERS PER DAY
ADF : AVERAGE DAILY FLOW

SOUTHWEST SUMMARY - 1988

TREATMENT TYPE	NUMBER			ANNUAL ADF (1000M3)		
	MIN	MUN	TOT	MINISTRY	MUNICIPAL	TOTAL
PRIMARY	2	3	5	16.83	169.09	185.92
CONVENTIONAL ACTIVATED SLUDGE	8	12	20	44.39	288.48	332.87
CONTACT STABILIZATION	0	1	1	0.00	2.25	2.25
EXTENDED AERATION	18	2	20	16.84	18.59	35.43
HIGH RATE	1	0	1	2.99	0.00	2.99
OXIDATION DITCH	2	1	3	1.67	4.42	6.09
AERATED LAGOON	1	2	3	0.49	6.31	6.80
CONVENTIONAL LAGOON CONTINUOUS	2	1	3	4.84	0.64	5.48
CONVENTIONAL LAGOON SEASONAL	31	3	34	23.39	7.38	30.77
LAGOON AND SPRAY	1	0	1	0.50	0.00	0.50
AERATED CELL PLUS LAGOON	7	1	8	14.12	0.00	14.12
CONVENTIONAL LAGOON ANNUAL	5	0	5	1.51	0.00	1.51
TOTALS	78	26	104	127.57	497.16	624.73

1000M3/D: THOUSANDS OF CUBIC METERS PER DAY
ADF : AVERAGE DAILY FLOW

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ALVINSTON
PLANT : ALVINSTON WPCP
WORKS NUMBER : 110002069
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 0.60 (1000 M3)

REGION : SOUTHWEST
DISTRICT : LAMBTON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : SYDENHAM RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 672

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.12	0.15	0.23	0.18	0.17	0.14	0.16	0.16	0.17	0.18	0.23	0.22	0.18	
BOD5														
INFLUENT (MG/L)	130.0	115.0	106.0	113.0	97.0	73.0	114.0	74.0	120.0	61.0	86.0	119.0	100.7	
EFFLUENT (MG/L)	4.5	2.0	2.3	3.8		1.4	1.9	1.6	2.1	1.5	5.5	2.7	2.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.54	0.30	0.52	0.68		0.19	0.30	0.25	0.35	0.27	1.26	0.59	0.49	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	110.0	97.0	106.0	95.0	101.0	83.0	493.0	447.0	104.0	396.0	204.0	150.0	198.8	
EFFLUENT (MG/L)	5.4	9.6	8.3	7.2	4.8	5.1	4.2	4.2	2.3	6.2	6.1	6.2	5.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.64	1.44	1.90	1.29	0.81	0.71	0.67	0.67	0.39	1.11	1.40	1.36	1.04	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.9	6.1	6.9	6.4	6.9	6.7	6.9	4.3	6.3	4.2	6.0	6.5	6.3	
EFFLUENT (MG/L)	0.2	0.5	0.4	0.3	0.5	0.4	0.2	0.2	0.2	0.3	0.4	0.5	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.02	0.07	0.09	0.05	0.08	0.05	0.03	0.03	0.03	0.05	0.09	0.11	0.05	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 CERTIFICATE OF APPROVAL ASSESSMENT

MUNICIPALITY : AMHERSTBURG
PLANT : AMHERSTBURG WPCP
WORKS NUMBER : 120001087
TREATMENT : PRIMARY
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 7.76 (1000 M3)

REGION : SOUTHWEST
DISTRICT : ESSEX
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : DETROIT RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 8,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	6.35	7.45	7.32	7.12	5.68	5.50	6.19	6.33	5.70	5.71	7.31	5.34	6.33	
BOD5														
INFLUENT (MG/L)	47.0	64.0	79.0	139.0	113.0	113.0	ND	69.0	92.0	63.0	133.0	55.0	87.9	
EFFLUENT (MG/L)	18.4	15.9	18.7	22.8	25.8	25.8	ND	24.8	38.0	14.8	44.4	17.9	24.3	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	116.84	118.45	136.88	162.33	146.54	141.90	ND	156.98	216.60	84.50	324.56	95.58	153.82	
LOADING LIMIT (KG/D)														
SUSPENDED SOLIDS														
INFLUENT (MG/L)	63.0	87.0	84.0	92.0	172.0	146.0	155.0	155.0	114.0	114.0	131.0	170.0	123.6	
EFFLUENT (MG/L)	11.4	16.1	22.3	30.0	27.4	ND	27.5	29.0	25.8	ND	24.8	26.7	24.1	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	72.39	119.94	163.23	213.60	155.63	ND	170.22	183.57	147.06	ND	181.28	142.57	152.55	
LOADING LIMIT (KG/D)														
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.3	3.6	5.4	4.1	3.6	3.5	4.0	3.8	3.7	4.2	5.2	3.6	4.2	
EFFLUENT (MG/L)	0.6	0.3	0.7	1.0	0.9	0.9	1.0	1.0	1.0	1.0	1.0	0.9	0.9	
CONCENTRATION LIMIT (MG/L)													1.0	
LOADING (KG/D)	3.81	2.23	5.12	7.12	5.11	4.95	6.19	6.33	5.70	5.71	7.31	4.80	5.70	
LOADING LIMIT (KG/D)														

SUMMARY

PARM	CRITERIA	LOADING	COMPLIES WITH CONC	COMPLIES WITH LOADING
BOD	NA	NA	NA	NA
SS	30.0 MG/L	NA	YES	NA
TP	1.0 MG/L	NA	YES	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - HAS NO CRITERIA
SS - ASSESSED ANNUALLY
TP - ASSESSED ANNUALLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : AMHERSTBURG
PLANT : AMHERSTBURG WPCP
WORKS NUMBER : 120001087
TREATMENT : PRIMARY
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 7.76 (1000 M3)

REGION : SOUTHWEST
DISTRICT : ESSEX
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : DETROIT RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 8,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	6.35	7.45	7.32	7.12	5.68	5.50	6.19	6.33	5.70	5.71	7.31	5.34	6.33	
BOD5														
INFLUENT (MG/L)	47.0	64.0	79.0	139.0	113.0	113.0	ND	69.0	92.0	63.0	133.0	55.0	87.9	
EFFLUENT (MG/L)	18.4	15.9	18.7	22.8	25.8	25.8	ND	24.8	38.0	14.8	44.4	17.9	24.3	
LOADING (KG/D)	116.84	118.45	136.88	162.33	146.54	141.90	ND	156.98	216.60	84.50	324.56	95.58	153.82	
PERCENT REMOVAL	61	75	76	84	77	77		64	59	77	67	67	72	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	63.0	87.0	84.0	92.0	172.0	146.0	155.0	155.0	114.0	114.0	131.0	170.0	123.6	
EFFLUENT (MG/L)	11.4	16.1	22.3	30.0	27.4	ND	27.5	29.0	25.8	ND	24.8	26.7	24.1	
LOADING (KG/D)	72.39	119.94	163.23	213.60	155.63	ND	170.22	183.57	147.06	ND	181.28	142.57	152.55	
PERCENT REMOVAL	82	81	73	67	84		82	81	77		81	84	81	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.3	3.6	5.4	4.1	3.6	3.5	4.0	3.8	3.7	4.2	5.2	3.6	4.2	
EFFLUENT (MG/L)	0.6	0.3	0.7	1.0	0.9	0.9	1.0	1.0	1.0	1.0	1.0	0.9	0.9	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	3.81	2.23	5.12	7.12	5.11	4.95	6.19	6.33	5.70	5.71	7.31	4.80	5.70	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	50%	YES
SS	70%	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ANDERDON
PLANT : EDGEWATER BEACH LAGOON
WORKS NUMBER : 110002407
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 1.61 (1000 M3)

REGION : SOUTHWEST
DISTRICT : ESSEX
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : DETROIT RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,575

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.81	0.52	0.46	0.51	0.43	0.47	0.42	0.47	0.55	0.52	0.59	0.47	0.52	
LAGOON DISCHARGE	ND	ND	ND	ND	75.98	27.63	ND	ND	ND	ND	ND	ND	51.81	
BOD5														
INFLUENT (MG/L)	98.0	115.0	114.0	74.0	164.0	156.0	112.0	5.0	131.0	119.0	73.0	117.0	106.5	
EFFLUENT (MG/L)	ND	ND	ND	ND	2.5	1.6	ND	ND	ND	ND	ND	ND	2.1	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	1.07	0.75	ND	ND	ND	ND	ND	ND	1.09	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	93.0	77.0	76.0	45.0	70.0	128.0	96.0	10.0	58.0	1.0	43.0	79.0	64.7	
EFFLUENT (MG/L)	ND	ND	ND	ND	13.2	3.3	ND	ND	ND	ND	ND	ND	8.3	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	5.67	1.55	ND	ND	ND	ND	ND	ND	4.32	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.2	9.0	8.9	5.5	10.2	9.0	9.7	0.2	8.3	9.2	6.3	8.0	7.5	
EFFLUENT (MG/L)	ND	ND	ND	ND	0.3	0.3	ND	ND	ND	ND	ND	ND	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	0.12	0.14	ND	ND	ND	ND	ND	ND	0.16	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ANDERDON
PLANT : MCGREGOR LAGOON
WORKS NUMBER : 110002096
TREATMENT : LAGOON AND SPRAY
: NO DISCHARGE
:
DESIGN CAPACITY : 0.56 (1000 M3)

REGION : SOUTHWEST
DISTRICT : ESSEX
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : NO DISC TO SURFACE WATER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,287

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.53	0.55	0.51	0.50	0.44	0.42	0.42	0.45	0.49	0.56	0.65	0.52	0.50	
LAGOON DISCHARGE	ND	ND	ND	7.19	61.38	48.35	39.08	1.34	ND	ND	ND	ND	31.47	
BOD5														
INFLUENT (MG/L)	132.0	119.0	151.0	166.0	147.0	111.0	117.0	128.0	122.0	135.0	96.0	142.0	130.5	
EFFLUENT (MG/L)	ND	ND	ND	ND	6.4	6.6	8.2	0.1	ND	ND	ND	ND	5.3	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	2.81	2.77	3.44	0.04	ND	ND	ND	ND	2.65	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	121.0	144.0	163.0	106.0	119.0	151.0	167.0	113.0	116.0	83.0	78.0	133.0	124.5	
EFFLUENT (MG/L)	ND	ND	ND	ND	23.6	6.0	16.0	5.4	ND	ND	ND	ND	12.8	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	10.38	2.52	6.72	2.43	ND	ND	ND	ND	6.40	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.6	6.8	7.8	7.6	9.1	8.3	8.1	7.7	8.0	7.1	6.7	8.8	7.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	0.6	1.0	0.8	0.5	ND	ND	ND	ND	0.7	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	0.26	0.42	0.33	0.22	ND	ND	ND	ND	0.35	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	NA	NO DIRECT DISCHARGE
SS	NA	NO DIRECT DISCHARGE
TP	NA	NO DIRECT DISCHARGE

NOTE:
BOD - HAS NO CRITERIA
SS - HAS NO CRITERIA
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ARRAN
PLANT : TARA LAGOON
WORKS NUMBER : 110003237
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 0.65 (1000 M3)

REGION : SOUTHWEST
DISTRICT : BRUCE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : SAUBLE RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 590

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.24	0.23	0.28	0.23	0.22	0.19	0.17	0.18	0.21	0.26	0.27	0.25	0.23	
LAGOON DISCHARGE	ND	ND	ND	59.28	ND	ND	ND	ND	ND	ND	39.48	ND	49.38	
BOD5														
INFLUENT (MG/L)	116.0	160.0	135.0	159.0	88.0	174.0	214.0	172.0	140.0	59.0	90.0	314.0	151.8	
EFFLUENT (MG/L)	ND	ND	ND	28.1	ND	ND	ND	ND	ND	ND	3.3	ND	15.7	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	6.46	ND	ND	ND	ND	ND	ND	0.89	ND	3.61	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	117.0	242.0	202.0	182.0	99.0	586.0	231.0	280.0	140.0	37.0	65.0	414.0	216.3	
EFFLUENT (MG/L)	ND	ND	ND	27.1	ND	ND	ND	ND	ND	ND	2.7	ND	14.9	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	6.23	ND	ND	ND	ND	ND	ND	0.72	ND	3.43	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.4	7.5	9.0	1.1	6.9	10.9	8.3	10.2	6.3	4.6	7.7	11.8	7.7	
EFFLUENT (MG/L)	ND	ND	ND	0.7	ND	ND	ND	ND	ND	ND	0.4	ND	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	0.16	ND	ND	ND	ND	ND	ND	0.10	ND	0.14	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 CERTIFICATE OF APPROVAL ASSESSMENT

MUNICIPALITY : AYLMER
PLANT : AYLMER LAGOON
WORKS NUMBER : 110000891
TREATMENT : AERATED CELL PLUS LAGOON
: SUMMER STORAGE
: PHOSPHORUS REMOVAL-CONTINUOUS
DESIGN CAPACITY : 5.23 (1000 M3)

REGION : SOUTHWEST
DISTRICT : ELGIN
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : CATFISH CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 5,300

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.56	4.24	4.79	4.88	3.68	2.99	3.16	3.18	3.01	3.08	4.60	3.81	3.75	
LAGOON DISCHARGE	ND	ND	ND	335.99	169.69	ND	ND	ND	ND	165.45	352.52	63.86	217.50	
BOD5														
INFLUENT (MG/L)	159.0	459.0	213.0	195.0	159.0	ND	248.0	127.0	196.0	101.0	79.0	103.0	185.4	
EFFLUENT (MG/L)	ND	ND	ND	20.2	30.6*	ND	ND	ND	ND	1.5	1.3	5.1	11.7	1
CONCENTRATION LIMIT (MG/L)	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0		
LOADING (KG/D)	ND	ND	ND	98.57	112.60	ND	ND	ND	ND	4.62	5.98	19.43	43.88	
LOADING LIMIT (KG/D)														
SUSPENDED SOLIDS														
INFLUENT (MG/L)	148.0	283.0	304.0	263.0	112.0	ND	161.0	124.0	140.0	68.0	58.0	117.0	161.6	
EFFLUENT (MG/L)	ND	ND	ND	30.9*	25.7	ND	ND	ND	ND	1.3	2.1	8.3	13.7	1
CONCENTRATION LIMIT (MG/L)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0		
LOADING (KG/D)	ND	ND	ND	150.79	94.57	ND	ND	ND	ND	4.00	9.66	31.62	51.38	
LOADING LIMIT (KG/D)														
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	14.6	11.6	15.7	12.4	9.7	ND	12.8	5.6	13.2	7.9	4.5	11.2	10.8	
EFFLUENT (MG/L)	ND	ND	ND	0.8	0.6	ND	ND	ND	ND	0.6	1.0	1.8*	1.0	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	3.90	2.20	ND	ND	ND	ND	1.84	4.60	6.85	3.75	
LOADING LIMIT (KG/D)														

SUMMARY

PARM	CRITERIA	LOADING	COMPLIES WITH CONC	COMPLIES WITH LOADING
BOD	25.0 MG/L	NA	NO	NA
SS	30.0 MG/L	NA	NO	NA
TP	1.0 MG/L	NA	NO	NA

NOTE:
BOD - ASSESSED MONTHLY
SS - ASSESSED MONTHLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

COLLECTION SYSTEM - INFILTRATION PROBLEMS BEING CORRECTED
EQUIPMENT/MAINTENANCE - EXISTING EQUIPMENT BEING REPAIRED
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE
FACILTY EXPANSION/UPGRADING - CONSTRUCTION COMPLETE

START DATE	END DATE	ANTICIPATED COMPLIANCE
1988		1989
1988/11	1988/12	1989
1988	1990/12	
1988/03	1988/09	1989/01

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : AYLMER
PLANT : AYLMER LAGOON
WORKS NUMBER : 110000891
TREATMENT : AERATED CELL PLUS LAGOON
: SUMMER STORAGE
: PHOSPHORUS REMOVAL-CONTINUOUS
DESIGN CAPACITY : 5.23 (1000 M3)

REGION : SOUTHWEST
DISTRICT : ELGIN
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : CATFISH CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 5,300

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.56	4.24	4.79	4.88	3.68	2.99	3.16	3.18	3.01	3.08	4.60	3.81	3.75	
LAGOON DISCHARGE	ND	ND	ND	335.99	169.69	ND	ND	ND	ND	165.45	352.52	63.86	217.50	
BOD5														
INFLUENT (MG/L)	159.0	459.0	213.0	195.0	159.0	ND	248.0	127.0	196.0	101.0	79.0	103.0	185.4	
EFFLUENT (MG/L)	ND	ND	ND	20.2	30.6	ND	ND	ND	ND	1.5	1.3	5.1	11.7	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	98.57	112.60	ND	ND	ND	ND	4.62	5.98	19.43	43.88	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	148.0	283.0	304.0	263.0	112.0	ND	161.0	124.0	140.0	68.0	58.0	117.0	161.6	
EFFLUENT (MG/L)	ND	ND	ND	30.9	25.7	ND	ND	ND	ND	1.3	2.1	8.3	13.7	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	150.79	94.57	ND	ND	ND	ND	4.00	9.66	31.62	51.38	
TOTAL PHOSPHORUS														
INFLUENT (MG/L)	14.6	11.6	15.7	12.4	9.7	ND	12.8	5.6	13.2	7.9	4.5	11.2	10.8	
EFFLUENT (MG/L)	ND	ND	ND	0.8	0.6	ND	ND	ND	ND	0.6	1.0	1.8*	1.0	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	3.90	2.20	ND	ND	ND	ND	1.84	4.60	6.85	3.75	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM - INFILTRATION PROBLEMS BEING CORRECTED	1988		1989
EQUIPMENT/MAINTENANCE - EXISTING EQUIPMENT BEING REPAIRED	1988/11	1988/12	1989
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE	1988	1990/12	
FACILTY EXPANSION/UPGRADING - CONSTRUCTION COMPLETE	1988/05	1988/09	1989/01

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BELMONT
PLANT : BELMONT LAGOON
WORKS NUMBER : 110002032
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 0.56 (1000 M3)

REGION : SOUTHWEST
DISTRICT : ELGIN
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : KETTLE CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,463

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.31	0.35	0.40	0.37	0.35	0.31	0.30	0.31	0.30	0.38	0.56	0.47	0.37	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	74.40	ND	ND	74.40	
BOD5														
INFLUENT (MG/L)	42.0	89.0	94.0	68.0	48.0	103.0	79.0	44.0	70.0	80.0	81.0	86.0	73.7	
EFFLUENT (MG/L)	ND	ND	ND	6.4	5.0	ND	ND	ND	ND	11.8	ND	ND	7.7	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	2.36	1.75	ND	ND	ND	ND	4.48	ND	ND	2.85	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	60.0	95.0	127.0	49.0	25.0	138.0	120.0	44.0	1,075.0	43.0	70.0	95.0	161.8	
EFFLUENT (MG/L)	ND	ND	ND	4.9	9.0	ND	ND	ND	ND	19.9	ND	ND	11.3	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	1.81	3.15	ND	ND	ND	ND	7.56	ND	ND	4.18	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.0	6.3	6.2	4.8	4.1	7.7	5.3	4.1	16.7	6.6	5.7	5.8	6.5	
EFFLUENT (MG/L)	ND	ND	ND	0.2	0.2	ND	ND	ND	ND	0.8	ND	ND	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	0.07	0.07	ND	ND	ND	ND	0.30	ND	ND	0.15	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED			

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BLANDFORD-BLENHEIM
PLANT : PLATTSVILLE LAGOON
WORKS NUMBER : 110003022
TREATMENT : AERATED CELL PLUS LAGOON
: SEASONAL DISCHARGE
: PHOSPHORUS REMOVAL - BATCH
DESIGN CAPACITY : 0.59 (1000 M3)

REGION : SOUTHWEST
DISTRICT : OXFORD
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : NITH RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 606

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.40	0.33	0.37	0.36	0.30	0.31	0.30	0.35	0.35	0.35	0.36	0.43	0.35	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	112.0	47.0	60.0	119.0	155.0	83.0	107.0	48.0	91.0	301.0	211.0	113.0	120.6	
EFFLUENT (MG/L)	ND	ND	ND	5.3	ND	ND	ND	ND	ND	0.5	ND	ND	2.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	1.90	ND	ND	ND	ND	ND	0.17	ND	ND	1.02	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	136.0	69.0	93.0	284.0	210.0	98.0	212.0	69.0	102.0	237.0	216.0	112.0	153.2	
EFFLUENT (MG/L)	ND	ND	ND	10.4	ND	ND	ND	ND	ND	5.1	ND	ND	7.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	3.74	ND	ND	ND	ND	ND	1.78	ND	ND	2.73	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.9	2.6	3.6	5.6	6.6	5.0	5.5	3.3	3.1	0.5	4.6	4.9	4.2	
EFFLUENT (MG/L)	ND	ND	ND	0.4	ND	ND	ND	ND	ND	0.1	ND	ND	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	0.14	ND	ND	ND	ND	ND	0.03	ND	ND	0.11	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED		
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE		

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BLENHEIM
PLANT : BLENHEIM LAGOON
WORKS NUMBER : 120001666
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 1.95 (1000 M3)

REGION : SOUTHWEST
DISTRICT : KENT
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : CAMERON DR - MCGREGOR CK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 4,200

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.03	1.71	1.65	1.59	1.33	1.21	1.24	1.30	1.47	1.39	1.61	1.45	1.42	
LAGOON DISCHARGE	ND	ND	24.67	333.20	ND	ND	ND	ND	ND	ND	243.07	ND	200.31	
BOD5														
INFLUENT (MG/L)	115.0	130.0	98.0	126.0	113.0	113.0	333.0	127.0	158.0	161.0	112.0	145.0	144.3	
EFFLUENT (MG/L)	ND	ND	20.0	20.7	ND	ND	ND	ND	ND	ND	13.1	ND	17.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	33.00	32.91	ND	ND	ND	ND	ND	ND	21.09	ND	25.42	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	147.0	250.0	138.0	93.0	145.0	205.0	207.0	139.0	212.0	136.0	104.0	178.0	162.8	
EFFLUENT (MG/L)	ND	ND	68.4	66.9	ND	ND	ND	ND	ND	ND	30.0	ND	55.1*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	112.86	106.37	ND	ND	ND	ND	ND	ND	48.30	ND	78.24	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.2	7.5	6.8	7.3	7.0	8.1	7.8	7.3	9.0	7.6	5.9	9.6	7.7	
EFFLUENT (MG/L)	ND	ND	0.9	1.1*	ND	ND	ND	ND	ND	ND	0.6	ND	0.9	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	1.48	1.74	ND	ND	ND	ND	ND	ND	0.96	ND	1.28	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	NO
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED			1989
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE			1989

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BLYTH
PLANT : BLYTH WPCP
WORKS NUMBER : 110002247
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
DESIGN CAPACITY : 0.73 (1000 M3)

REGION : SOUTHWEST
DISTRICT : HURON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BLYTH CREEK
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 890

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.37	0.38	0.45	0.38	0.34	0.33	0.32	0.32	0.40	0.41	0.42	0.42	0.38	
BOD5														
INFLUENT (MG/L)	242.0	153.0	134.0	105.0	131.0	106.0	122.0	90.0	128.0	90.0	149.0	198.0	137.3	
EFFLUENT (MG/L)	4.8	8.9	2.3	1.9	1.4	4.0	3.4	2.1	1.7	1.3	1.6	1.5	2.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.77	3.38	1.03	0.72	0.47	1.32	1.08	0.67	0.68	0.53	0.67	0.63	1.10	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	318.0	139.0	172.0	106.0	137.0	177.0	148.0	91.0	145.0	79.0	144.0	280.0	161.3	
EFFLUENT (MG/L)	1.7	4.3	1.4	1.7	0.5	1.0	1.0	1.5	0.7	0.8	1.0	0.6	1.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.62	1.63	0.63	0.64	0.17	0.33	0.32	0.48	0.28	0.32	0.42	0.25	0.53	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	12.2	8.4	7.5	6.8	8.0	8.5	7.4	5.9	7.7	6.0	7.3	13.3	8.3	
EFFLUENT (MG/L)	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.07	0.11	0.13	0.07	0.06	0.06	0.06	0.06	0.08	0.08	0.08	0.08	0.08	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1980 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BRUSSELS
PLANT : BRUSSELS WPCP
WORKS NUMBER : 110002354
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
DESIGN CAPACITY : 0.88 (1000 M3)

REGION : SOUTHWEST
DISTRICT : HURON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : MAITLAND RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,010

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.30	0.30	0.42	0.34	0.25	0.23	0.23	0.25	0.26	0.36	0.42	0.34	0.31	
BOD5														
INFLUENT (MG/L)	167.0	242.0	231.0	265.0	149.0	85.0	180.0	160.0	181.0	194.0	173.0	263.0	190.8	
EFFLUENT (MG/L)	13.3	8.4	5.8	8.6	1.4	0.9	1.8	1.4	1.4	1.6	1.4	2.9	4.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.99	2.52	2.43	2.92	0.35	0.20	0.41	0.35	0.36	0.57	0.58	0.98	1.27	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	316.0	563.0	480.0	201.0	146.0	147.0	241.0	173.0	218.0	242.0	305.0	485.0	293.1	
EFFLUENT (MG/L)	8.4	8.2	7.7	2.3	0.9	0.9	0.9	1.2	0.7	1.1	1.0	2.7	3.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2.52	2.46	3.23	0.78	0.22	0.20	0.20	0.30	0.18	0.39	0.42	0.91	0.93	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	15.5	23.8	18.7	10.5	5.3	6.2	11.1	8.8	11.1	12.3	16.3	21.2	13.4	
EFFLUENT (MG/L)	0.4	0.4	0.4	0.6	0.2	0.2	0.3	0.5	0.2	0.2	0.2	0.3	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.12	0.12	0.16	0.20	0.05	0.04	0.06	0.12	0.05	0.07	0.08	0.10	0.09	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : CHATHAM
PLANT : CHATHAM WPCP
WORKS NUMBER : 110000098
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
DESIGN CAPACITY : 35.91 (1000 M3)

REGION : SOUTHWEST
DISTRICT : KENT
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : THAMES RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 41,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	26.75	25.05	25.06	21.62	18.36	20.59	21.63	23.02	22.80	21.90	27.36	21.57	22.98	
BOD5														
INFLUENT (MG/L)	177.0	164.0	209.0	132.0	137.0	175.0	134.0	146.0	190.0	202.0	229.0	181.0	173.0	
EFFLUENT (MG/L)	7.5	4.2	12.1	8.0	6.5	7.5	6.0	7.5	5.9	4.7	6.1	2.9	6.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	200.62	105.21	303.22	172.96	119.34	154.42	129.78	172.65	134.52	102.93	166.89	62.55	151.67	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	231.0	201.0	197.0	242.0	307.0	218.0	251.0	340.0	356.0	366.0	232.0	222.0	263.6	
EFFLUENT (MG/L)	13.8	13.2	21.1	20.3	20.3	24.1	20.8	25.5	32.0	29.5	22.2	9.5	21.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	369.15	330.66	528.76	438.88	372.70	496.21	449.90	587.01	729.60	646.05	607.39	204.91	482.58	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	12.4	15.4	14.2	19.7	17.7	21.2	16.3	25.9	18.0	15.4	10.0	16.4	16.9	
EFFLUENT (MG/L)	0.4	0.6	0.8	0.7	0.8	1.2*	0.9	2.0*	1.1*	0.5	0.3	0.6	0.8	3
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	10.70	15.03	20.04	15.13	14.68	24.70	19.46	46.04	25.08	10.95	8.20	12.94	18.38	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
INFLUENT SEWAGE - ENFORCING SEWER USE BYLAW			1989

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : CHESLEY
PLANT : CHESLEY LAGOON
WORKS NUMBER : 110000105
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 1.45 (1000 M3)

REGION : SOUTHWEST
DISTRICT : BRUCE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NORTH SAUGEEN RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,883

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.66	0.82	1.23	0.74	0.48	0.37	0.33	0.44	0.37	0.65	0.88	0.66	0.64	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	115.0	84.0	60.6	68.0	69.0	21.4	103.0	ND	69.0	94.0	26.0	93.0	73.0	
EFFLUENT (MG/L)	7.1	4.7	6.6	9.3	4.7	1.7	4.3	ND	4.1	3.4	2.8	1.3	4.5	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	4.68	3.85	8.11	6.88	2.25	0.62	1.41	ND	1.51	2.21	2.46	0.85	2.88	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	156.9	89.1	66.1	74.0	70.0	47.9	111.6	ND	114.2	88.6	22.2	122.0	87.5	
EFFLUENT (MG/L)	4.0	5.1	6.4	24.8	4.2	8.2	8.6	ND	13.7	3.8	2.7	1.4	7.7	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	2.64	4.18	10.33	18.35	2.01	3.03	2.83	ND	5.06	2.47	2.37	0.92	4.93	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.1	4.7	8.0	4.8	4.4	2.9	5.6	ND	4.7	6.8	2.1	5.5	4.7	
EFFLUENT (MG/L)	0.9	0.9	1.1*	0.8	0.7	0.9	1.6*	ND	1.8*	0.6	0.4	0.5	0.9	3
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.59	0.73	1.35	0.59	0.33	0.33	0.52	ND	0.66	0.39	0.35	0.33	0.58	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	NO

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : CLINTON
PLANT : CLINTON WPCP
WORKS NUMBER : 120000925
TREATMENT : CONTACT STABILIZATION
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT FILTRATION
DESIGN CAPACITY : 1.81 (1000 M3)

REGION : SOUTHWEST
DISTRICT : HURON
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : BAYFIELD RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.30	2.49	3.78	2.80	1.70	1.10	1.00	1.10	1.41	2.97	3.48	2.90	2.25	
BOD5														
INFLUENT (MG/L)	76.0	60.0	5.0	86.0	100.0	134.0	133.0	155.0	58.0	79.0	55.0	98.0	86.6	
EFFLUENT (MG/L)	8.9	7.2	8.3	3.1	1.5	3.8	3.4	1.5	4.2	5.8	3.8	7.9	5.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	20.47	17.92	31.37	8.68	2.55	4.18	3.40	1.65	5.92	17.22	13.22	22.91	11.25	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	28.0	81.0	89.0	31.0	72.0	220.0	151.0	148.0	57.0	89.0	47.0	97.0	92.5	
EFFLUENT (MG/L)	4.6	4.3	5.7	2.4	1.5	3.0	4.2	3.2	1.7	3.8	1.9	6.4	3.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	10.58	10.70	21.54	6.72	2.55	3.30	4.20	3.52	2.39	11.28	6.61	18.56	8.10	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.4	3.5	3.3	3.4	4.8	8.1	8.1	9.0	4.4	4.3	3.2	3.8	4.9	
EFFLUENT (MG/L)	0.5	0.6	0.5	0.7	0.8	0.5	0.5	0.8	0.6	0.5	0.6	0.8	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	1.15	1.49	1.89	1.96	1.36	0.55	0.50	0.88	0.84	1.48	2.08	2.32	1.35	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW			1990
SLUDGE DISPOSAL/REMOVAL - UPGRADING SLUDGE STORAGE FACILITIES			1990
FACILTY EXPANSION/UPGRADING - ENVIRONMENTAL ASSESSMENT BEING CONDUCTED			1990

1988 CERTIFICATE OF APPROVAL ASSESSMENT

MUNICIPALITY : COLLINGWOOD
PLANT : CRAIGLEIGH WPCP
WORKS NUMBER : 120001951
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT FILTRATION
DESIGN CAPACITY : 4.07 (1000 M3)

REGION : SOUTHWEST
DISTRICT : GREY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : GEORGIAN BAY
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.84	0.87	0.85	0.58	0.58	0.60	0.61	0.61	0.69	0.89	0.89	1.00	0.75	
BOD5														
INFLUENT (MG/L)	25.5	14.8	33.2	82.0	23.0	13.0	28.0	23.0	40.0	42.5	16.0	17.0	29.8	
EFFLUENT (MG/L)	2.9	2.2	5.2	3.8	1.0	0.7	0.6	1.7	0.9	0.6	1.6	0.7	1.8	
CONCENTRATION LIMIT (MG/L)													15.0	
LOADING (KG/D)	2.43	1.91	4.42	2.20	0.58	0.42	0.36	1.03	0.62	0.53	1.42	0.70	1.35	
LOADING LIMIT (KG/D)													61.20	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	86.8	66.8	87.8	64.0	41.0	34.0	62.0	76.0	61.0	83.0	32.0	165.0	71.6	
EFFLUENT (MG/L)	4.7	2.5	13.0	5.2	2.0	0.8	0.8	0.4	0.6	1.2	1.1	1.1	2.8	
CONCENTRATION LIMIT (MG/L)													15.0	
LOADING (KG/D)	3.94	2.17	11.05	3.01	1.16	0.48	0.48	0.24	0.41	1.06	0.97	1.10	2.10	
LOADING LIMIT (KG/D)													61.20	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.0	3.5	3.2	2.2	2.1	1.6	2.5	3.0	2.9	2.5	2.4	2.2	2.7	
EFFLUENT (MG/L)	0.4	0.2	0.4	0.2	0.1	0.3	0.3	0.2	0.3	0.2	0.1	0.3	0.2	
CONCENTRATION LIMIT (MG/L)													0.3	
LOADING (KG/D)	0.33	0.17	0.34	0.11	0.05	0.18	0.12	0.12	0.20	0.17	0.08	0.30	0.15	
LOADING LIMIT (KG/D)													1.22	

SUMMARY

PARM	CRITERIA	LOADING	COMPLIES WITH CONC	LOADING
BOD	15.0 MG/L	61.20 KG/D	YES	YES
SS	15.0 MG/L	61.20 KG/D	YES	YES
TP	0.3 MG/L	1.22 KG/D	YES	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED ANNUALLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : COLLINGWOOD
PLANT : CRAIGLEIGH WPCP
WORKS NUMBER : 120001951
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT FILTRATION
DESIGN CAPACITY : 4.07 (1000 M3)

REGION : SOUTHWEST
DISTRICT : GREY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : GEORGIAN BAY
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.84	0.87	0.85	0.58	0.58	0.60	0.61	0.61	0.69	0.89	0.89	1.00	0.75	
BOD5														
INFLUENT (MG/L)	25.5	14.8	33.2	82.0	23.0	13.0	28.0	23.0	40.0	42.5	16.0	17.0	29.8	
EFFLUENT (MG/L)	2.9	2.2	5.2	3.8	1.0	0.7	0.6	1.7	0.9	0.6	1.6	0.7	1.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2.43	1.91	4.42	2.20	0.58	0.42	0.36	1.03	0.62	0.53	1.42	0.70	1.35	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	86.8	66.8	87.8	64.0	41.0	34.0	62.0	76.0	61.0	83.0	32.0	165.0	71.6	
EFFLUENT (MG/L)	4.7	2.5	13.0	5.2	2.0	0.8	0.8	0.4	0.6	1.2	1.1	1.1	2.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.94	2.17	11.05	3.01	1.16	0.48	0.48	0.24	0.41	1.06	0.97	1.10	2.10	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.0	3.5	3.2	2.2	2.1	1.6	2.5	3.0	2.9	2.5	2.4	2.2	2.7	
EFFLUENT (MG/L)	0.4	0.2	0.4	0.2	0.1	0.3	0.2	0.2	0.3	0.2	0.1	0.3	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.33	0.17	0.34	0.11	0.05	0.18	0.12	0.12	0.20	0.17	0.08	0.30	0.15	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
- EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : DOVER
PLANT : MITCHELL'S BAY LAGOON
WORKS NUMBER : 110002087
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 0.50 (1000 M3)

REGION : SOUTHWEST
DISIRICT : KENT
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : LAKE ST. CLAIR
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 350

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.12	0.14	0.12	0.12	0.12	0.14	0.18	0.19	0.15	0.11	0.13	0.10	0.14	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	67.0	74.0	176.0	78.0	167.0	ND	98.0	152.0	176.0	54.0	108.0	144.0	117.6	
EFFLUENT (MG/L)	ND	ND	ND	ND	2.5	ND	ND	ND	ND	ND	ND	ND	2.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	0.30	ND	ND	ND	ND	ND	ND	ND	0.35	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	58.0	50.0	206.0	76.0	79.0	ND	168.0	157.0	205.0	148.0	142.0	144.0	130.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	35.5	ND	ND	ND	ND	ND	ND	ND	35.5*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	4.26	ND	ND	ND	ND	ND	ND	ND	4.97	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.2	0.5	5.0	5.5	5.1	ND	7.6	11.9	8.0	2.7	5.1	6.8	5.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	0.1	ND	ND	ND	ND	ND	ND	ND	0.1	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	0.01	ND	ND	ND	ND	ND	ND	ND	0.01	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	NO
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED			1989
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE			1989

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : DRESDEN
PLANT : DRESDEN WPCP
WORKS NUMBER : 110002014
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 4.54 (1000 M3)

REGION : SOUTHWEST
DISTRICT : KENT
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : SYDENHAM RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,546

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.20	2.32	1.85	1.49	1.36	1.32	1.17	1.43	1.63	1.86	1.87	1.42	1.66	
BOD5														
INFLUENT (MG/L)	259.0	410.0	56.0	83.0	70.0	99.0	164.0	103.0	71.0	149.0	76.0	192.0	144.3	
EFFLUENT (MG/L)	13.0	25.7	16.6	11.3	10.4	8.2	6.7	9.1	6.5	5.9	6.3	3.3	10.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	28.60	59.62	30.71	16.83	14.14	10.82	7.83	13.01	10.59	10.97	11.78	4.68	17.10	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	485.0	317.0	123.0	155.0	238.0	278.0	164.0	238.0	256.0	268.0	439.0	308.0	272.4	
EFFLUENT (MG/L)	17.9	66.2	83.9	23.5	28.8	45.9	39.9	35.8	39.9	36.9	31.7	19.2	39.1M	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	39.38	153.58	155.21	35.01	39.16	60.58	46.68	51.19	65.03	68.63	59.27	27.26	64.91	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.2	4.7	3.7	4.8	6.9	6.3	5.5	5.4	3.8	6.1	3.6	5.7	5.1	
EFFLUENT (MG/L)	0.6	0.8	1.7M	0.5	0.6	0.9	0.9	1.1M	1.3M	1.3M	0.5	0.6	0.9	4
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	1.32	1.85	3.14	0.74	0.81	1.18	1.05	1.57	2.11	2.41	0.93	0.85	1.49	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	NO
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
M - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
INFLUENT SEWAGE - INSTALLING INDUSTRIAL PRETREATMENT			1989/01/01
INFLUENT SEWAGE - ENFORCING SEWER USE BYLAW			1989/01
SLUDGE DISPOSAL/REMOVAL - UPGRADING SLUDGE STORAGE FACILITIES			1989/01
SLUDGE DISPOSAL/REMOVAL - SLUDGE QUALITY BEING IMPROVED			

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : DUNDALK
PLANT : DUNDALK LAGOON
WORKS NUMBER : 110001471
TREATMENT : AERATED CELL PLUS LAGOON
: SUMMER STORAGE
: PHOSPHORUS REMOVAL CONTINUOUS
DESIGN CAPACITY : 1.05 (1000 M3)

REGION : SOUTHWEST
DISTRICT : GREY
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : FOLEY DRAIN TO GRAND R.
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,310

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.82	1.01	1.12	1.18	0.78	0.66	0.58	0.60	0.65	0.76	1.15	0.86	0.85	
LAGOON DISCHARGE	134.50	42.00	34.00	46.50	ND	ND		ND	ND	ND	ND	102.46	59.91	
BOD5														
INFLUENT (MG/L)	76.0	30.0	129.0	31.0	35.0	93.0	19.0	37.0	73.0	93.0	84.0	107.0	67.3	
EFFLUENT (MG/L)	1.5	9.6	12.4	4.4	ND	ND	ND	ND	ND	ND	ND	7.4	7.1	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	1.23	9.69	13.88	5.19	ND	ND	ND	ND	ND	ND	ND	6.36	6.04	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	97.0	64.0	178.0	15.0	35.0	110.0	7.0	85.0	150.0	65.0	77.0	146.0	85.8	
EFFLUENT (MG/L)	3.5	7.4	15.6	1.6	ND	ND	ND	ND	ND	ND	ND	111.8	28.0	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	2.87	7.47	17.47	1.88	ND	ND	ND	ND	ND	ND	ND	96.14	23.80	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.1	3.2	5.6	1.2	0.3	6.8	3.2	4.1	6.1	3.9	13.6	6.4	5.0	
EFFLUENT (MG/L)	0.6	0.4	0.7	0.2	ND	ND	ND	ND	ND	ND	ND	0.6	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.49	0.40	0.78	0.23	ND	ND	ND	ND	ND	ND	ND	0.51	0.43	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE!
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : DURHAM
PLANT : DURHAM MUN WPCP
WORKS NUMBER : 110000999
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 2.18 (1000 M3)

REGION : SOUTHWEST
DISTRICT : GREY
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : SAUGEEN RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,317

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.97	1.11	1.11	1.22	0.95	0.76	0.71	0.74	0.78	0.78	0.87	0.86	0.91	
BOD5														
INFLUENT (MG/L)	105.0	116.0	100.0	74.0	110.0	76.0	173.0	165.0	162.0	139.0	225.0	208.0	137.8	
EFFLUENT (MG/L)	4.2	5.4	6.2	3.4	2.7	1.9	1.4	1.1	1.9	1.9	3.1	4.9	3.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	4.07	5.99	6.88	4.14	2.56	1.44	0.99	0.81	1.48	1.48	2.69	4.21	2.91	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	350.0	301.0	292.0	249.0	214.0	678.0	543.0	441.0	510.0	179.0	537.0	656.0	412.5	
EFFLUENT (MG/L)	9.3	9.8	12.5	5.8	5.5	8.1	6.6	4.1	5.3	9.1	8.9	16.8	8.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	9.02	10.87	13.87	7.07	5.22	6.15	4.68	3.03	4.13	7.09	7.74	14.44	7.74	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.3	9.3	6.7	5.4	6.9	8.5	8.6	8.3	11.3	8.0	12.8	10.3	8.6	
EFFLUENT (MG/L)	0.4	0.5	0.5	0.2	0.2	0.3	0.3	0.2	0.3	0.6	0.3	0.6	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.38	0.55	0.55	0.24	0.19	0.22	0.21	0.14	0.23	0.46	0.26	0.51	0.36	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : DUTTON
PLANT : DUTTON LAGOON
WORKS NUMBER : 110001266
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 0.31 (1000 M3)

REGION : SOUTHWEST
DISTRICT : ELGIN
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BENNETT CK. TO L. ERIE
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 843

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.49	0.48	0.48	0.46	0.36	0.35	0.34	0.37	0.34	0.33	0.33	0.32	0.39	
LAGOON DISCHARGE	ND	ND	ND	48.56	ND	ND	ND	ND	ND	40.41	ND	ND	44.49	
BOD5														
INFLUENT (MG/L)	ND	ND	124.0	141.0	224.0	196.0	281.0	196.0	151.0	328.0	178.0	169.0	196.8	
EFFLUENT (MG/L)	ND	ND	ND	21.6	ND	ND	ND	ND	ND	10.0	ND	ND	15.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	9.93	ND	ND	ND	ND	ND	3.30	ND	ND	6.16	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	116.0	137.0	221.0	128.0	170.0	189.0	106.0	201.0	97.0	154.0	151.9	
EFFLUENT (MG/L)	ND	ND	ND	45.6	ND	ND	ND	ND	ND	36.6	ND	ND	41.1*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	20.97	ND	ND	ND	ND	ND	12.07	ND	ND	16.03	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	6.9	8.4	9.3	8.9	13.2	10.3	9.1	12.1	8.1	9.8	9.6	
EFFLUENT (MG/L)	ND	ND	ND	0.8	ND	ND	ND	ND	ND	0.7	ND	ND	0.8	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	0.36	ND	ND	ND	ND	ND	0.23	ND	ND	0.31	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	NO
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - FINAL DESIGN PHASE	1989/04	1990/12	1991/01

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : EAST WILLIAMS
PLANT : AILSA CRAIG WPCP
WORKS NUMBER : 110002050
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 0.60 (1000 M3)

REGION : SOUTHWEST
DISTRICT : MIDDLESEC
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : AUSABLE RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 843

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.34	0.42	0.69	0.48	0.31	0.26	0.26	0.26	0.28	0.45	0.50	0.45	0.39	
BOD5														
INFLUENT (MG/L)	109.0	121.0	129.0	133.0	161.0	112.0	109.0	142.0	206.0	110.0	88.0	156.0	131.3	
EFFLUENT (MG/L)	19.2	8.7	7.3	4.1	2.8	2.6	2.4	2.8	2.4	3.3	9.5	13.6	6.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	6.52	3.65	5.03	1.96	0.86	0.67	0.62	0.72	0.67	1.48	4.75	6.12	2.57	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	125.0	244.0	299.0	145.0	224.0	227.0	114.0	219.0	408.0	115.0	87.0	213.0	201.7	
EFFLUENT (MG/L)	15.6	11.0	11.8	8.4	16.2	14.2	9.7	8.8	17.6	15.9	27.7	20.6	14.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	5.30	4.62	8.14	4.03	5.02	3.69	2.52	2.28	4.92	7.15	13.85	9.27	5.77	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.3	8.0	8.4	7.9	9.3	8.0	8.3	7.7	9.6	6.1	4.6	7.4	7.6	
EFFLUENT (MG/L)	0.8	0.5	0.6	0.5	0.6	0.6	0.4	0.5	0.9	0.8	1.0	0.8	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.27	0.27	0.41	0.24	0.18	0.15	0.10	0.13	0.25	0.36	0.50	0.36	0.27	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED	1988/07	1989/12	

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : EAST ZORRA-TAVISTOCK
PLANT : TAVISTOCK LAGOON
WORKS NUMBER : 110000720
TREATMENT : AERATED CELL PLUS LAGOON
: SEASONAL DISCHARGE
: PHOSPHORUS REMOVAL-CONTINUOUS
DESIGN CAPACITY : 0.77 (1000 M3)

REGION : SOUTHWEST
DISTRICT : OXFORD
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : TRIBUTARY TO THAMES R.
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,952

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.82	0.85	0.89	1.00	0.86	0.69	0.68	0.65	0.71	0.87	1.13	0.89	0.84	
LAGOON DISCHARGE	ND	ND	32.00	26.35	ND	ND	ND	ND	ND	ND	ND	ND	29.18	
BOD5														
INFLUENT (MG/L)	293.0	ND	231.0	88.0	266.0	370.0	546.0	855.0	126.0	414.0	189.0	607.0	362.3	
EFFLUENT (MG/L)	ND	ND	8.5	14.5	ND	ND	ND	ND	ND	ND	ND	ND	11.5	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	7.56	14.50	ND	ND	ND	ND	ND	ND	ND	ND	9.66	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	146.0	ND	106.0	142.0	99.0	152.0	207.0	282.0	122.0	153.0	88.0	636.0	193.9	
EFFLUENT (MG/L)	ND	ND	50.2	58.8	ND	ND	ND	ND	ND	ND	ND	ND	54.5*	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	44.67	58.80	ND	ND	ND	ND	ND	ND	ND	ND	45.78	
TOTAL PHOSPHORUS														
INFLUENT (MG/L)	108.5	ND	9.4	10.9	9.6	3.5	29.1	17.5	19.7	6.4	9.0	14.1	21.6	
EFFLUENT (MG/L)	ND	ND	0.9	0.7	ND	ND	ND	ND	ND	ND	ND	ND	0.8	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	0.80	0.70	ND	ND	ND	ND	ND	ND	ND	ND	0.67	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	NO
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - CONSTRUCTION COMPLETE	1988	1988	1989

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ENNISKILLEN
PLANT : OIL CITY LAGOON
WORKS NUMBER : 110001738
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 0.18 (1000 M3)

REGION : SOUTHWEST
DISTRICT : LAMBTON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BLACK CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 170

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.05	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	147.0	206.0	111.0	116.0	130.0	66.0	120.0	86.0	59.3	89.5	97.0	61.0	107.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	98.0	200.0	98.0	102.0	536.0	83.0	151.0	71.0	50.2	80.4	106.2	65.2	136.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.3	10.0	7.5	7.3	16.2	7.1	7.8	5.6	5.9	8.0	9.1	5.4	8.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	NO DISCHARGE
SS	25.0 MG/L	NO DISCHARGE
TP	1.0 MG/L	NO DISCHARGE

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
" - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

START DATE	END DATE	ANTICIPATED COMPLIANCE

OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ESSEX
PLANT : ESSEX LAGOON N.E.
WORKS NUMBER : 110000203
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 2.88 (1000 M3)

REGION : SOUTHWEST
DISTRICT : ESSEX
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : PUCE RIVER DRAIN
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 4,003

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.91	2.26	1.69	1.38	1.23	1.16	1.20	1.21	1.26	1.41	1.63	1.34	1.47	
LAGOON DISCHARGE	ND	ND	ND	341.77	ND	ND	ND	ND	ND	ND	157.86	ND	249.82	
BOD5														
INFLUENT (MG/L)	17.0	24.0	41.0	76.0	ND	13.0	71.0	63.0	40.0	19.0	39.0	27.0	39.1	
EFFLUENT (MG/L)	ND	ND	ND	15.4	ND	ND	ND	ND	ND	ND	5.0	ND	10.2	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	21.25	ND	ND	ND	ND	ND	ND	8.15	ND	14.99	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	30.0	39.0	97.0	237.0	ND	104.0	89.0	45.0	41.0	38.0	57.0	38.0	74.1	
EFFLUENT (MG/L)	ND	ND	ND	15.0	ND	ND	ND	ND	ND	ND	3.9	ND	9.5	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	20.70	ND	ND	ND	ND	ND	ND	6.35	ND	13.97	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	1.3	2.8	2.9	6.6	ND	7.8	5.6	4.0	1.6	22.0	2.1	2.3	5.4	
EFFLUENT (MG/L)	ND	ND	ND	0.3	ND	ND	ND	ND	ND	ND	0.2	ND	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	0.41	ND	ND	ND	ND	ND	ND	0.32	ND	0.44	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ESSEX
PLANT : ESSEX LAGOON S.W.
WORKS NUMBER : 110000837
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 1.52 (1000 M3)

REGION : SOUTHWEST
DISTRICT : ESSEX
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : CANARD RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,519

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.72	0.78	0.73	0.82	1.20	0.89	1.34	1.35	1.09	0.97	1.20	0.88	1.00	
LAGOON DISCHARGE	ND	ND	ND	110.92	ND	ND	ND	ND	ND	ND	79.78	ND	95.35	
BOD5														
INFLUENT (MG/L)	112.0	157.0	134.0	114.0	139.0	240.0	387.0	157.0	120.0	118.0	160.0	155.0	166.1	
EFFLUENT (MG/L)	ND	ND	ND	26.7	ND	ND	ND	ND	ND	ND	7.1	ND	16.9	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	21.89	ND	ND	ND	ND	ND	ND	8.52	ND	16.90	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	186.0	128.0	149.0	117.0	249.0	175.0	245.0	119.0	125.0	121.0	215.0	180.0	167.4	
EFFLUENT (MG/L)	ND	ND	ND	36.0	ND	ND	ND	ND	ND	ND	43.0	ND	39.5	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	29.52	ND	ND	ND	ND	ND	ND	51.60	ND	39.50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.5	7.7	7.3	8.1	7.5	8.3	8.8	7.0	6.6	7.6	7.8	6.9	7.6	
EFFLUENT (MG/L)	ND	ND	ND	0.7	ND	ND	ND	ND	ND	ND	0.4	ND	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	0.57	ND	ND	ND	ND	ND	ND	0.48	ND	0.60	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : EXETER
PLANT : EXETER LAGOON
WORKS NUMBER : 110000221
TREATMENT : AERATED LAGOON
: PHOSPHORUS REMOVAL - BATCH
: SUMMER STORAGE
DESIGN CAPACITY : 3.39 (1000 M3)

REGION : SOUTHWEST
DISTRICT : HURON
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : AUSABLE RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,750

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.89	2.02	3.35	2.47	1.84	1.65	1.59	3.39	2.81	2.78	3.02	2.49	2.44	
LAGOON DISCHARGE	48.24	45.45	117.39	25.63	ND	ND	ND	ND	ND	ND	311.33	271.20	136.54	
BOD5														
INFLUENT (MG/L)	153.0	96.0	135.0	93.0	100.0	ND	ND	127.0	120.0	81.0	75.0	58.0	103.8	
EFFLUENT (MG/L)	ND	ND	11.6	12.3	ND	ND	ND	ND	ND	ND	15.4	13.4	13.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	38.86	30.38	ND	ND	ND	ND	ND	ND	46.50	33.36	32.21	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	298.0	84.0	208.0	106.0	97.0	ND	ND	117.7	104.0	77.0	43.0	69.0	120.4	
EFFLUENT (MG/L)	ND	ND	7.1	16.0	ND	ND	ND	ND	ND	ND	19.9	34.8	19.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	23.78	39.52	ND	ND	ND	ND	ND	ND	60.09	86.65	47.58	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.6	6.5	5.2	6.8	6.6	ND	ND	6.9	4.8	5.1	4.1	3.8	5.6	
EFFLUENT (MG/L)	ND	ND	0.6	0.5	ND	ND	ND	ND	ND	ND	0.7	0.5	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	2.01	1.23	ND	ND	ND	ND	ND	ND	2.11	1.24	1.46	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : FOREST
PLANT : FOREST LAGOON
WORKS NUMBER : 110001346
TREATMENT : CONVENTIONAL LAGOON SEASONAL
:
:
DESIGN CAPACITY : 1.36 (1000 M3)

REGION : SOUTHWEST
DISTRICT : LAMBTON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : HICKORY CREEK
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,600

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.10	1.13	1.29	1.20	1.11	1.01	0.98	1.02	1.01	1.11	1.22	1.18	1.11	
LAGOON DISCHARGE	ND	ND	ND	124.40	ND	ND	ND	ND	ND	110.86	ND	ND	117.63	
BOD5														
INFLUENT (MG/L)	105.0	170.0	132.0	290.0	123.0	141.0	ND	12.0	110.0	202.0	118.0	241.0	149.5	
EFFLUENT (MG/L)	ND	ND	ND	20.5	ND	ND	ND	ND	ND	14.6	ND	ND	17.6	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	24.60	ND	ND	ND	ND	ND	16.20	ND	ND	19.54	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	137.0	177.0	216.0	383.0	158.0	174.0	589.0	186.0	206.0	243.0	210.0	203.0	240.2	
EFFLUENT (MG/L)	ND	ND	ND	96.9	ND	ND	ND	ND	ND	216.2	ND	ND	156.6*	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	116.28	ND	ND	ND	ND	ND	239.98	ND	ND	173.83	
TOTAL PHOSPHORUS														
INFLUENT (MG/L)	4.9	6.5	10.3	4.7	6.0	6.0	11.7	6.3	6.0	7.8	7.5	11.9	7.5	
EFFLUENT (MG/L)	ND	ND	ND	1.1	ND	ND	ND	ND	ND	1.3	ND	ND	1.2	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	1.32	ND	ND	ND	ND	ND	1.44	ND	ND	1.33	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	NO
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED	1988/04		1989/01
FACILTY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED	1988		1989/01
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE			

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : GLENCOE
PLANT : GLENCOE LAGOON
WORKS NUMBER : 110001845
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 0.94 (1000 M3)

REGION : SOUTHWEST
DISTRICT : MIDDLESEC
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : NEWBIGGEN CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,908

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.31	0.66	0.83	0.59	0.61	0.51	0.54	0.64	0.50	0.57	0.87	0.62	0.60	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	163.0	925.0	134.0	110.0	143.0	160.0	176.0	166.0	152.0	123.0	117.0	132.0	208.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	12.2	ND	ND	ND	ND	16.1	ND	ND	14.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	7.44	ND	ND	ND	ND	9.17	ND	ND	8.52	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	123.0	1,813.0	107.0	61.0	145.0	208.0	117.0	123.0	78.0	103.0	101.0	124.0	258.6	
EFFLUENT (MG/L)	ND	ND	ND	ND	22.1	ND	ND	ND	ND	76.5	ND	ND	49.3*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	13.48	ND	ND	ND	ND	43.60	ND	ND	29.58	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.5	40.1	7.1	7.5	8.1	7.7	7.1	7.6	6.4	7.5	7.4	9.5	10.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	0.7	ND	ND	ND	ND	1.0	ND	ND	0.9	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	0.42	ND	ND	ND	ND	0.57	ND	ND	0.54	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	NO
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED			1989
FACILTY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED	1989		
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE			1989

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : GODERICH
PLANT : GODERICH WPCP
WORKS NUMBER : 120000943
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 9.09 (1000 M3)

REGION : SOUTHWEST
DISTRICT : HURON
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE HURON
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 7,400

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	7.80	6.90	8.80	7.90	7.00	6.90	7.10	7.80	8.20	10.20	12.60	9.40	8.38	
BOD5														
INFLUENT (MG/L)	147.0	234.0	130.0	178.0	98.0	145.0	130.0	226.0	317.0	131.0	155.5	167.0	171.5	
EFFLUENT (MG/L)	6.2	6.4	6.3	6.7	8.2	4.2	4.3	5.3	4.4	4.1	3.7	5.4	5.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	48.36	44.16	55.44	52.93	57.40	28.98	30.53	41.34	36.08	41.82	46.62	50.76	45.25	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	233.0	399.0	387.0	342.0	172.0	333.0	543.0	206.0	165.9	260.0	468.4	523.5	336.1	
EFFLUENT (MG/L)	7.7	7.4	8.7	8.4	9.5	5.8	5.2	4.3	4.8	4.4	8.3	8.4	6.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	60.06	51.06	76.56	66.36	66.50	40.02	36.92	33.54	39.36	44.88	104.58	78.96	57.82	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.0	7.0	5.2	5.5	6.2	7.1	7.1	5.8	6.2	5.5	6.8	6.8	6.2	
EFFLUENT (MG/L)	0.8	0.6	0.6	0.7	0.5	0.4	0.3	0.9	1.2*	0.4	0.4	0.5	0.6	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	6.24	4.14	5.28	5.53	3.50	2.76	2.13	7.02	9.84	4.08	5.04	4.70	5.03	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

START DATE	END DATE	ANTICIPATED COMPLIANCE

COLLECTION SYSTEM - SEWAGE UPGRADE UNDERWAY
COLLECTION SYSTEM - INFILTRATION PROBLEMS BEING CORRECTED
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : GOSFIELD NORTH
PLANT : COTTAM LAGOON
WORKS NUMBER : 110002005
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 0.67 (1000 M3)

REGION : SOUTHWEST
DISTRICT : ESSEX
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : MADDOX DRAIN TO BELLE R.
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 825

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.29	0.29	0.34	0.29	0.29	0.24	0.24	0.24	0.26	0.30	0.34	0.31	0.29	
LAGOON DISCHARGE	ND	ND	ND	ND	71.59	ND	ND	ND	ND	ND	ND	ND	71.59	
BOD5														
INFLUENT (MG/L)	64.0	109.0	90.0	91.0	60.0	81.0	61.0	37.0	95.0	109.0	140.0	108.0	87.1	
EFFLUENT (MG/L)	ND	ND	ND	ND	20.1	ND	ND	ND	ND	ND	ND	ND	20.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	5.82	ND	ND	ND	ND	ND	ND	ND	5.83	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	92.0	88.0	103.0	96.0	41.0	58.0	68.0	56.0	67.0	52.0	110.0	120.0	79.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	54.1	ND	ND	ND	ND	ND	ND	ND	54.1*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	15.68	ND	ND	ND	ND	ND	ND	ND	15.69	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.0	7.1	5.7	8.4	5.5	6.0	4.3	3.9	6.5	6.9	7.9	6.6	6.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	0.8	ND	ND	ND	ND	ND	ND	ND	0.8	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	0.23	ND	ND	ND	ND	ND	ND	ND	0.23	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	NO
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED			1989
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE			1989

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : HANOVER
PLANT : HANOVER WPCP
WORKS NUMBER : 120001461
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 6.36 (1000 M3)

REGION : SOUTHWEST
DISTRICT : GREY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : SAUGEEN RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 6,389

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.85	4.00	4.57	4.20	3.36	2.86	3.03	3.55	3.77	4.22	4.86	4.10	3.86	
BOD5														
INFLUENT (MG/L)	170.0	93.4	86.5	88.0	107.0	86.0	115.0	229.0	146.0	ND	200.0	278.0	145.4	
EFFLUENT (MG/L)	7.3	5.5	2.5	5.2	3.8	1.1	1.9	1.9	1.2	5.7	8.2	5.6	4.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	28.10	22.00	11.42	21.84	12.76	3.14	5.75	6.74	4.52	24.05	39.85	22.96	16.21	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	190.0	82.4	125.5	120.0	109.0	170.0	168.0	199.0	157.0	163.0	199.0	303.0	165.5	
EFFLUENT (MG/L)	10.0	5.2	8.1	4.0	4.3	4.0	4.5	4.8	3.7	4.0	6.1	6.4	5.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	38.50	20.80	37.01	16.80	14.44	11.44	13.63	17.04	13.94	16.88	29.64	26.24	20.84	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.1	4.2	5.5	4.7	5.7	6.5	7.0	6.8	5.3	8.3	6.9	9.9	6.4	
EFFLUENT (MG/L)	0.3	0.3	0.6	0.4	0.4	0.5	0.8	0.7	0.6	0.6	0.4	0.7	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	1.15	1.20	2.74	1.68	1.34	1.43	2.42	2.48	2.26	2.53	1.94	2.87	1.93	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : HARROW
PLANT : HARROW LAGOON
WORKS NUMBER : 110002103
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 1.52 (1000 M3)

REGION : SOUTHWEST
DISTRICT : ESSEX
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : CEDAR CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,302

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.29	1.38	1.29	1.32	1.22	1.09	1.20	1.14	1.31	1.30	1.34	1.21	1.26	
LAGOON DISCHARGE	ND	ND	ND	ND	172.38	ND	ND	ND	ND	ND	152.97	ND	162.68	
BOD5														
INFLUENT (MG/L)	87.0	108.0	108.0	205.0	146.0	184.0	223.0	101.0	172.0	111.0	135.0	155.0	144.6	
EFFLUENT (MG/L)	ND	ND	ND	ND	7.3	ND	ND	ND	ND	ND	10.1	ND	8.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	8.90	ND	ND	ND	ND	ND	13.53	ND	10.96	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	85.0	149.0	145.0	372.0	117.0	315.0	158.0	87.0	428.0	93.0	94.0	159.0	183.5	
EFFLUENT (MG/L)	ND	ND	ND	ND	10.1	ND	ND	ND	ND	ND	17.5	ND	13.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	12.32	ND	ND	ND	ND	ND	23.45	ND	17.39	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.4	6.3	6.1	9.6	6.7	8.8	8.2	6.0	7.4	6.6	7.3	8.2	7.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	0.6	ND	ND	ND	ND	ND	0.3	ND	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	0.73	ND	ND	ND	ND	ND	0.40	ND	0.63	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
M - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED			
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE			

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : HENSALL
PLANT : HENSALL LAGOON
WORKS NUMBER : 110000926
TREATMENT : CONVENTIONAL LAGOON ANNUAL
:
:
DESIGN CAPACITY : 0.59 (1000 M3)

REGION : SOUTHWEST
DISTRICT : HURON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BLACK CK TO AUSABLE R.
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,013

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.46	0.48	0.60	0.51	0.48	0.43	0.42	0.44	0.47	0.59	0.66	0.63	0.51	
LAGOON DISCHARGE	ND	ND	ND	112.31	ND	ND	ND	ND	ND	33.40	18.56	ND	54.76	
BOD5														
INFLUENT (MG/L)	126.0	94.0	60.0	56.0	151.0	101.0	96.0	121.0	96.0	39.0	47.0	66.0	87.8	
EFFLUENT (MG/L)	ND	ND	ND	3.5	ND	ND	ND	ND	ND	2.6	3.2	ND	3.1	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	1.78	ND	ND	ND	ND	ND	1.53	2.11	ND	1.58	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	135.0	53.0	91.0	99.0	132.0	123.0	156.0	143.0	135.0	32.0	59.0	131.0	107.4	
EFFLUENT (MG/L)	ND	ND	ND	7.0	ND	ND	ND	ND	ND	7.8	3.3	ND	6.0	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	3.57	ND	ND	ND	ND	ND	4.60	2.17	ND	3.06	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.8	3.8	4.5	5.7	7.3	7.2	9.6	7.2	6.2	5.4	5.1	5.5	6.3	
EFFLUENT (MG/L)	ND	ND	ND	0.5	ND	ND	ND	ND	ND	1.5	1.3	ND	1.1	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	0.25	ND	ND	ND	ND	ND	0.88	0.85	ND	0.56	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

START DATE	END DATE	ANTICIPATED COMPLIANCE

OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : INGERSOLL
PLANT : INGERSOLL NEW WPCP
WORKS NUMBER : 110003969
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 6.81 (1000 M3)

REGION : SOUTHWEST
DISTRICT : OXFORD
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : THAMES RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 5,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.66	3.48	4.13	4.10	3.95	3.79	3.56	3.78	3.34	4.34	4.67	3.96	3.90	
BOD5														
INFLUENT (MG/L)	183.0	311.0	185.0	254.0	462.0	342.0	317.0	351.0	132.0	164.0	ND	150.0	259.2	
EFFLUENT (MG/L)	10.6	12.0	10.5	6.0	5.1	7.1	2.7	2.6	5.2	3.1	ND	8.0	6.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	38.79	41.76	43.36	24.60	20.14	26.90	9.61	9.82	17.36	13.45	ND	31.68	25.74	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	263.0	374.0	256.0	275.0	459.0	357.0	390.0	435.0	209.0	162.0	ND	228.0	309.8	
EFFLUENT (MG/L)	12.9	13.6	8.2	3.8	4.6	7.3	4.1	4.1	6.5	6.0	ND	9.4	7.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	47.21	47.32	33.86	15.58	18.17	27.66	14.59	15.49	21.71	26.04	ND	37.22	28.47	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.2	8.6	6.5	6.5	8.9	5.2	11.5	8.9	6.6	7.8	ND	8.2	7.9	
EFFLUENT (MG/L)	0.6	0.4	0.6	0.2	0.5	1.2*	0.6	0.4	0.8	0.7	ND	0.4	0.6	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	2.19	1.39	2.47	0.82	1.97	4.54	2.13	1.51	2.67	3.03	ND	1.58	2.34	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
INFLUENT SEWAGE - INSTALLING INDUSTRIAL PRETREATMENT	1988/04		1988/07
SLUDGE DISPOSAL/REMOVAL - UPGRADING SLUDGE THICKENING FACILITIES	1988	1989	
FACILTY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED	1988/04		1988/07

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : INGERSOLL
PLANT : INGERSOLL OLD WPCP
WORKS NUMBER : 110003970
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 3.41 (1000 M3)

REGION : SOUTHWEST
DISTRICT : OXFORD
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : THAMES RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,800

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.09	1.17	1.43	1.45	1.36	1.29	1.19	1.30	1.16	0.55	0.59	1.34	1.16	
BOD5														
INFLUENT (MG/L)	183.0	311.0	185.0	254.0	462.0	342.0	317.0	351.0	132.0	164.0	ND	150.0	259.2	
EFFLUENT (MG/L)	10.0	7.9	10.2	12.9	6.3	10.9	3.8	8.7	2.3	2.8	ND	10.2	7.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	10.90	9.24	14.58	18.70	8.56	14.06	4.52	11.31	2.66	1.54	ND	13.66	9.05	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	263.0	374.0	256.0	275.0	459.0	357.0	390.0	435.0	209.0	162.0	ND	228.0	309.8	
EFFLUENT (MG/L)	9.8	7.1	10.4	14.3	12.6	10.7	7.8	11.2	7.4	10.8	ND	14.3	10.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	10.68	8.30	14.87	20.73	17.13	13.80	9.28	14.56	8.58	5.94	ND	19.16	12.30	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.2	8.6	6.5	6.5	8.9	5.2	11.5	8.9	6.6	7.8	ND	8.2	7.9	
EFFLUENT (MG/L)	0.4	0.3	0.6	0.6	0.5	0.9	0.7	0.6	0.7	0.6	ND	0.4	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.43	0.35	0.85	0.87	0.68	1.16	0.83	0.78	0.81	0.33	ND	0.53	0.70	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
INFLUENT SEWAGE - INSTALLING INDUSTRIAL PRETREATMENT	1988/04		
SLUDGE DISPOSAL/REMOVAL - UPGRADING SLUDGE THICKENING FACILITIES	1988	1989/12	
FACILTY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED	1988/04		

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : KINCARDINE
PLANT : KINCARDINE LAGOON
WORKS NUMBER : 110000864
TREATMENT : AERATED CELL PLUS LAGOON
: CONTINUOUS DISCHARGE
: PHOSPHORUS REMOVAL-CONTINUOUS
DESIGN CAPACITY : 5.91 (1000 M3)

REGION : SOUTHWEST
DISTRICT : BRUCE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : LAKE HURON
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 7,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.43	2.41	2.77	2.44	2.08	1.86	1.98	2.01	2.01	3.13	3.25	2.91	2.44	
LAGOON DISCHARGE	75.23	69.94	85.70	75.51	64.40	55.78	61.28	62.36	62.24	97.12	97.40	90.06	74.75	
BOD5														
INFLUENT (MG/L)	75.0	77.0	84.0	106.0	90.0	111.0	33.0	84.0	80.0	22.0	55.0	75.0	74.3	
EFFLUENT (MG/L)	5.9	8.3	10.2	20.9	10.5	11.6	4.9	3.5	1.7	2.3	4.3	6.3	7.5	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	14.33	20.00	28.25	50.99	21.84	21.57	9.70	7.03	3.41	7.19	13.97	18.33	18.30	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	133.0	88.0	146.0	112.0	137.0	149.0	83.0	70.0	46.0	18.0	54.0	87.0	93.6	
EFFLUENT (MG/L)	1.7	2.1	7.0	31.3	6.1	19.8	7.5	3.5	0.7	3.9	6.5	3.6	7.8	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	4.13	5.06	19.39	76.37	12.68	36.82	14.85	7.03	1.40	12.20	21.12	10.47	19.03	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.9	4.7	4.5	6.6	6.4	6.9	2.7	7.0	5.3	2.0	4.5	4.6	5.0	
EFFLUENT (MG/L)	2.4*	1.8*	1.1*	0.7	2.0*	1.3*	2.3*	1.2*	0.5	0.4	0.6	1.1*	1.3	8
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	5.83	4.33	3.04	1.70	4.16	2.41	4.55	2.41	1.00	1.25	1.95	3.20	3.17	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - START-UP DIFFICULTIES BEING CORRECTED			1989/03
OPERATIONAL/PROCESS - MINOR PROCESS/OPERATIONAL MODIFICATION	1988/09	1989/03	1989/03
EQUIPMENT/MAINTENANCE - EXISTING EQUIPMENT BEING REPAIRED	1988/09	1988/09	

1988 CERTIFICATE OF APPROVAL ASSESSMENT

MUNICIPALITY : KINGSVILLE
PLANT : KINGSVILLE LAGOON
WORKS NUMBER : 120001078
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 2.75 (1000 M3)

REGION : SOUTHWEST
DISTRICT : ESSEX
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : WIGLE CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 5,200

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.92	4.56	4.40	4.20	3.11	2.46	2.60	2.69	2.51	2.90	3.93	3.51	3.40	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	ND	15.0	15.0	ND	ND	ND	ND	ND	ND	ND	14.0	14.7	
EFFLUENT (MG/L)	ND	ND	22.8	22.8	ND	ND	ND	ND	ND	ND	10.6	8.2	16.1	
CONCENTRATION LIMIT (MG/L)	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0		
LOADING (KG/D)	ND	ND	100.32	95.76	ND	ND	ND	ND	ND	ND	41.65	28.78	54.74	
LOADING LIMIT (KG/D)														
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	49.0	49.0	ND	ND	ND	ND	ND	ND	ND	20.0	39.3	
EFFLUENT (MG/L)	ND	ND	46.0*	46.0*	ND	ND	ND	ND	ND	ND	38.2*	33.7*	41.0	4
CONCENTRATION-LIMIT (MG/L)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0		
LOADING (KG/D)	ND	ND	202.40	193.20	ND	ND	ND	ND	ND	ND	150.12	118.28	139.40	
LOADING LIMIT (KG/D)														
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	1.1	1.1	ND	ND	ND	ND	ND	ND	ND	1.1	1.1	
EFFLUENT (MG/L)	ND	ND	0.8	0.8	ND	ND	ND	ND	ND	ND	0.9	0.9	0.9	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	3.52	3.36	ND	ND	ND	ND	ND	ND	3.53	3.15	3.06	
LOADING LIMIT (KG/D)														

SUMMARY

PARM	CRITERIA	LOADING	COMPLIES WITH CONC	LOADING
BOD	25.0 MG/L	NA	YES	NA
SS	30.0 MG/L	NA	NO	NA
TP	1.0 MG/L	NA	YES	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED MONTHLY
SS - ASSESSED MONTHLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : KINGSVILLE
PLANT : KINGSVILLE LAGOON
WORKS NUMBER : 120001078
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 2.75 (1000 M3)

REGION : SOUTHWEST
DISTRICT : ESSEX
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : WIGLE CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 5,200

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.92	4.56	4.40	4.20	3.11	2.46	2.60	2.69	2.51	2.90	3.93	3.51	3.40	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	ND	15.0	15.0	ND	ND	ND	ND	ND	ND	ND	14.0	14.7	
EFFLUENT (MG/L)	ND	ND	22.8	22.8	ND	ND	ND	ND	ND	ND	10.6	8.2	16.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	100.32	95.76	ND	ND	ND	ND	ND	ND	41.65	28.78	54.74	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	49.0	49.0	ND	ND	ND	ND	ND	ND	ND	20.0	39.3	
EFFLUENT (MG/L)	ND	ND	46.0	46.0	ND	ND	ND	ND	ND	ND	38.2	33.7	41.0*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	202.40	193.20	ND	ND	ND	ND	ND	ND	150.12	118.28	139.40	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	1.1	1.1	ND	ND	ND	ND	ND	ND	ND	1.1	1.1	
EFFLUENT (MG/L)	ND	ND	0.8	0.8	ND	ND	ND	ND	ND	ND	0.9	0.9	0.9	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	3.52	3.36	ND	ND	ND	ND	ND	ND	3.53	3.15	3.06	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	NO
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : LEAMINGTON
PLANT : LEAMINGTON WPCP
WORKS NUMBER : 120001069
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 19.09 (1000 M3)

REGION : SOUTHWEST
DISTRICT : ESSEX
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ERIE
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 12,600

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	20.45	25.58	19.80	12.74	14.35	13.78	17.90	28.06	12.63	15.13	17.31	16.31	17.84	
BOD5														
INFLUENT (MG/L)	249.0	261.0	137.0	151.0	209.0	246.0	142.0	210.0	294.0	256.0	219.0	446.0	235.0	
EFFLUENT (MG/L)	5.1	6.8	3.1	1.8	3.8	3.2	2.1	3.9	6.7	7.5	2.0	5.2	4.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	104.29	173.94	61.38	22.93	54.53	44.09	37.59	109.43	84.62	113.47	34.62	84.81	76.71	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	325.0	251.0	145.0	283.0	181.0	230.0	187.0	367.0	653.0	342.0	416.0	400.0	315.0	
EFFLUENT (MG/L)	4.8	8.4	14.0	12.9	13.2	11.0	8.4	7.0	16.4	16.5	14.0	19.2	12.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	98.16	214.87	277.20	164.34	189.42	151.58	150.36	196.42	207.13	249.64	242.34	313.15	217.65	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.0	7.4	7.8	7.3	5.5	5.5	5.1	4.2	5.5	10.7	5.9	2.5	6.1	
EFFLUENT (MG/L)	0.7	0.6	1.0	1.0	0.5	0.7	1.0	0.4	0.6	0.3	0.3	0.5	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	14.31	15.34	19.80	12.74	7.17	9.64	17.90	11.22	7.57	4.53	5.19	8.15	10.70	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - OPERATIONAL PROCEDURES BEING UPGRADED	1989/01/01	1990/01/01	1989/01/01
SLUDGE DISPOSAL/REMOVAL - UPGRADING SLUDGE STORAGE FACILITIES			

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : LISTOWEL
PLANT : LISTOWEL LAGOON CONT DIS (SUMMER SPRAY)
WORKS NUMBER : 110000409
TREATMENT : AERATED CELL PLUS LAGOON
: LAGOON AND SPRAY
: PHOSPHORUS REMOVAL-CONTINUOUS
DESIGN CAPACITY : 4.91 (1000 M3)

REGION : SOUTHWEST
DISTRICT : PERTH
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : CHAPMAN DRAIN
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 4,554

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	4.97	5.05	6.42	5.40	4.89	4.05	2.80	2.91	3.98	4.31	5.60	3.67	4.50	
LAGOON DISCHARGE	ND	104.10	223.04	450.29	ND	26.85	71.08	73.43	101.68	75.68	362.78	317.68	180.66	
BOD5														
INFLUENT (MG/L)	174.0	214.0	365.0	422.0	409.0	529.0	392.0	286.0	397.0	309.0	277.0	343.0	343.1	
EFFLUENT (MG/L)	ND	16.9	20.7	17.6	ND	6.2	3.7	2.7	1.8	1.9	11.5	19.1	10.2	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	85.34	132.89	95.04	ND	25.11	10.36	7.85	7.16	8.18	64.40	70.09	45.90	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	429.0	151.0	186.0	295.0	325.0	359.0	408.0	217.0	277.0	392.0	183.0	238.0	288.3	
EFFLUENT (MG/L)	ND	30.0	31.9	34.6	ND	19.2	39.9	18.8	4.3	4.2	16.3	27.2	22.6	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	151.50	204.79	186.84	ND	77.76	111.72	54.70	17.11	18.10	91.28	99.82	101.70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.5	2.8	7.0	3.8	4.0	6.0	4.6	5.3	4.9	4.2	2.8	4.0	4.5	
EFFLUENT (MG/L)	ND	1.1*	1.1*	0.8	ND	0.4	0.4	0.3	0.2	0.3	0.4	0.6	0.6	2
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	5.55	7.06	4.32	ND	1.62	1.12	0.87	0.79	1.29	2.24	2.20	2.70	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - ENVIRONMENTAL ASSESSMENT BEING CONDUCTED	1988	1990/12	1988/04

1986 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : LOBO
PLANT : KILWORTH HEIGHTS WPCP
WORKS NUMBER : 110003362
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 0.26 (1000 M3)

REGION : SOUTHWEST
DISTRICT : MIDDLESEC
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : THAMES RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 315

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.10	0.08	0.09	0.11	0.08	0.07	0.07	0.08	0.08	0.10	0.14	0.12	0.09	
BOD5														
INFLUENT (MG/L)	193.0	91.0	73.0	54.0	67.0	62.0	55.0	93.0	47.0	75.0	44.0	38.0	74.3	
EFFLUENT (MG/L)	1.5	1.0	1.0	1.7	1.6	1.2	3.8	6.0	2.9	0.6	8.2	1.6	2.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.15	0.08	0.09	0.18	0.12	0.08	0.26	0.48	0.23	0.06	1.14	0.19	0.23	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	326.0	191.0	153.0	124.0	115.0	88.0	120.0	363.0	136.0	175.0	111.0	76.0	164.8	
EFFLUENT (MG/L)	1.2	1.5	0.9	1.3	2.4	2.2	5.6	4.5	8.5	9.6	3.2	2.5	3.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.12	0.12	0.08	0.14	0.19	0.15	0.39	0.36	0.68	0.96	0.44	0.30	0.32	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.1	5.7	6.9	2.3	4.3	5.0	4.7	5.8	3.0	5.9	2.6	2.1	4.7	
EFFLUENT (MG/L)	0.6	0.7	0.6	0.3	0.6	0.8	0.7	0.5	0.7	0.6	1.0	0.2	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.06	0.05	0.05	0.03	0.04	0.05	0.04	0.04	0.05	0.06	0.14	0.02	0.05	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

START DATE	END DATE	ANTICIPATED COMPLIANCE

FACILTY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : LONDON
PLANT : ADELAIDE WPCP
WORKS NUMBER : 120000872
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 18.18 (1000 M3)

REGION : SOUTHWEST
DISTRICT : MIDDLESEC
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : THAMES RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 35,678

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	18.29	18.25	20.30	20.51	21.38	18.79	18.55	17.56	17.89	20.18	23.81	21.54	19.75	
BOD5														
INFLUENT (MG/L)	203.0	163.0	163.0	198.0	119.0	123.0	167.0	133.0	162.0	231.0	175.0	234.0	172.6	
EFFLUENT (MG/L)	2.0	3.0	3.0	3.0	2.0	3.0	3.0	2.0	2.0	2.0	2.0	2.0	2.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	36.58	54.75	60.90	61.53	42.76	56.37	55.65	35.12	35.78	40.36	47.62	43.08	47.40	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	253.0	185.0	236.0	164.0	175.0	162.0	191.0	159.0	189.0	273.0	177.0	314.0	206.5	
EFFLUENT (MG/L)	8.0	7.0	6.0	8.0	8.0	5.0	7.0	6.0	5.0	6.0	6.0	5.0	6.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	146.32	127.75	121.80	164.08	171.04	93.95	129.85	105.36	89.45	121.08	142.86	107.70	126.40	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.0	7.2	5.4	6.7	5.9	5.4	7.1	5.3	5.0	7.4	5.6	6.3	6.2	
EFFLUENT (MG/L)	0.4	0.7	0.4	0.5	0.6	0.5	0.7	0.7	0.6	0.4	0.6	0.9	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	7.31	12.77	8.12	10.25	12.82	9.39	12.98	12.29	10.73	8.07	14.28	19.38	11.85	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : LONDON
PLANT : GREENWAY WPCP
WORKS NUMBER : 120000863
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 124.33 (1000 M3)

REGION : SOUTHWEST
DISTRICT : MIDDLESEC
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : THAMES RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 168,274

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	104.95	101.84	128.76	125.64	114.37	103.42	106.36	124.68	120.63	116.02	138.10	114.13	116.58	
BOD5														
INFLUENT (MG/L)	280.0	195.0	245.0	374.0	232.0	257.0	282.0	294.0	273.0	282.0	218.0	248.0	265.0	
EFFLUENT (MG/L)	3.0	4.0	5.0	5.0	5.0	4.0	3.0	3.0	3.0	3.0	4.0	5.0	3.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	314.85	407.36	643.80	628.20	571.85	413.68	319.08	374.04	361.89	348.06	552.40	570.65	454.66	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	189.0	197.0	194.0	168.0	186.0	209.0	187.0	199.0	196.0	162.0	173.0	188.0	187.3	
EFFLUENT (MG/L)	11.0	12.0	13.0	15.0	15.0	12.0	11.0	10.0	11.0	11.0	14.0	12.0	12.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1154.45	1222.08	1673.88	1884.60	1715.55	1241.04	1169.96	1246.80	1326.93	1276.22	1933.40	1369.56	1433.93	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.7	8.3	5.6	8.1	7.4	6.8	6.7	7.0	6.1	7.3	6.9	6.4	7.0	
EFFLUENT (MG/L)	0.6	0.6	0.4	0.7	0.6	0.6	0.7	0.7	0.6	0.9	0.8	0.8	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	62.97	61.10	51.50	87.94	68.62	62.05	74.45	87.27	72.37	104.41	110.48	91.30	81.61	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1986 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : LONDON
PLANT : OXFORD WPCP
WORKS NUMBER : 120000854
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 5.45 (1000 M3)

REGION : SOUTHWEST
DISTRICT : MIDDLESEC
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : THAMES RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 16,224

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.75	3.89	5.02	5.13	4.86	4.44	4.49	4.52	4.82	5.13	5.52	5.13	4.64	
BOD5														
INFLUENT (MG/L)	158.0	111.0	144.0	141.0	132.0	134.0	153.0	157.0	159.0	161.0	113.0	92.0	137.9	
EFFLUENT (MG/L)	3.0	3.0	4.0	5.0	4.0	3.0	3.0	2.0	4.0	2.0	3.0	3.0	3.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	8.25	11.67	20.08	25.65	19.44	13.32	13.47	9.04	19.28	10.26	16.56	15.39	15.31	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	187.0	133.0	200.0	168.0	181.0	219.0	189.0	236.0	202.0	176.0	117.0	97.0	175.4	
EFFLUENT (MG/L)	7.0	6.0	7.0	11.0	11.0	8.0	8.0	10.0	13.0	8.0	9.0	5.0	8.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	19.25	23.34	35.14	56.43	53.46	35.52	35.92	45.20	62.66	41.04	49.68	25.65	39.90	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.8	8.0	7.7	8.7	7.7	8.2	9.1	6.6	7.3	8.5	6.2	5.6	7.7	
EFFLUENT (MG/L)	0.7	0.6	0.5	0.9	0.8	0.5	0.8	0.6	0.9	0.4	0.5	0.5	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	1.92	2.33	2.51	4.61	3.88	2.22	3.59	2.71	4.33	2.05	2.76	2.56	2.78	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : LONDON
PLANT : POTTERSBURG WPCP
WORKS NUMBER : 120000836
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 22.04 (1000 M3)

REGION : SOUTHWEST
DISTRICT : MIDDLESEC
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : THAMES RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 25,653

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	18.46	17.72	20.41	19.93	20.29	16.83	15.91	19.00	18.04	19.99	25.09	20.38	19.34	
BOD5														
INFLUENT (MG/L)	152.0	129.0	137.0	147.0	119.0	144.0	198.0	148.0	213.0	178.0	115.0	132.0	151.0	
EFFLUENT (MG/L)	3.0	2.0	3.0	3.0	3.0	3.0	3.0	2.0	2.0	1.0	3.0	3.0	2.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	55.38	35.44	61.23	59.79	60.87	50.49	47.73	38.00	36.08	19.99	75.27	61.14	50.28	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	112.0	103.0	92.0	124.0	106.0	132.0	146.0	199.0	172.0	117.0	84.0	80.0	122.3	
EFFLUENT (MG/L)	9.0	4.0	4.0	6.0	5.0	6.0	7.0	6.0	5.0	5.0	6.0	4.0	5.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	166.14	70.88	81.64	119.58	101.45	100.98	111.37	114.00	90.20	99.95	150.54	81.52	108.30	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.5	6.1	4.4	6.8	4.7	5.1	7.1	5.0	5.1	6.2	4.2	4.7	5.4	
EFFLUENT (MG/L)	0.4	0.8	0.7	0.9	0.7	0.4	0.6	0.8	0.9	0.3	0.3	0.8	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	7.38	14.17	14.28	17.93	14.20	6.73	9.54	15.20	16.23	5.99	7.52	16.30	11.60	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : LONDON
PLANT : VAUXHALL WPCP
WORKS NUMBER : 120000845
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 20.91 (1000 M3)

REGION : SOUTHWEST
DISTRICT : MIDDLESEC
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : THAMES RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 22,981

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	16.54	17.01	17.55	17.66	16.38	19.07	16.84	19.16	17.70	18.26	20.54	19.07	17.98	
BOD5														
INFLUENT (MG/L)	579.0	332.0	311.0	404.0	194.0	253.0	320.0	282.0	401.0	362.0	226.0	226.0	324.2	
EFFLUENT (MG/L)	4.0	6.0	6.0	4.0	4.0	4.0	3.0	3.0	5.0	3.0	4.0	4.0	4.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	66.16	102.06	105.30	70.64	65.52	76.28	50.52	57.48	88.50	54.78	82.16	76.28	75.52	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	302.0	267.0	219.0	191.0	145.0	190.0	166.0	242.0	266.0	276.0	143.0	142.0	212.4	
EFFLUENT (MG/L)	8.0	11.0	8.0	9.0	9.0	7.0	5.0	8.0	8.0	10.0	8.0	5.0	8.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	132.32	187.11	140.40	158.94	147.42	133.49	84.20	153.28	141.60	182.60	164.32	95.35	143.84	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.3	7.0	4.3	6.3	5.1	6.1	8.1	4.3	4.7	7.0	4.9	3.9	5.8	
EFFLUENT (MG/L)	0.4	0.4	0.4	0.8	0.7	0.7	0.8	0.4	0.6	0.5	0.3	0.6	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	6.61	6.80	7.02	14.12	11.46	13.34	13.47	7.66	10.62	9.13	6.16	11.44	10.79	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : LUCAN
PLANT : LUCAN LAGOON
WORKS NUMBER : 110000855
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 0.29 (1000 M3)

REGION : SOUTHWEST
DISTRICT : MIDDLESEC
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : LITTLE AUSABLE RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,563

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.72	0.83	1.26	0.98	0.81	0.51	0.59	0.57	0.75	1.49	1.40	0.98	0.91	
LAGOON DISCHARGE	ND	ND	ND	68.83	2.00	ND	ND	ND	32.00	44.06	ND	30.33	35.44	
BOD5														
INFLUENT (MG/L)	123.0	75.0	127.0	118.0	124.0	202.0	135.0	117.0	144.0	102.0	50.0	97.0	117.8	
EFFLUENT (MG/L)	ND	ND	ND	12.6	26.7	ND	ND	ND	3.0	9.1	ND	31.2	16.5	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	12.34	21.62	ND	ND	ND	2.25	13.55	ND	30.57	15.02	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	133.0	53.0	90.0	108.0	94.0	303.0	155.0	89.0	209.0	69.0	48.0	94.0	120.4	
EFFLUENT (MG/L)	ND	ND	ND	25.3	70.0	ND	ND	ND	2.9	24.3	ND	44.4	33.4	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	24.79	56.70	ND	ND	ND	2.17	36.20	ND	43.51	30.39	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.5	4.7	6.5	6.4	7.6	11.8	6.8	7.0	6.6	5.7	4.6	5.5	6.6	
EFFLUENT (MG/L)	ND	ND	ND	0.4	0.8	ND	ND	ND		0.4	ND	0.8	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	0.39	0.64	ND	ND	ND		0.59	ND	0.78	0.46	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE	1988	1991/12	

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MAIDSTONE
PLANT : BELLE RIVER-MAIDSTONE WPCP
WORKS NUMBER : 110002078
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 6.81 (1000 M3)

REGION : SOUTHWEST
DISTRICT : ESSEX
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : LAKE ST.CLAIR
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 8,292

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	5.18	5.53	5.36	5.43	4.61	4.42	4.44	4.37	4.34	4.47	5.45	4.71	4.86	
BOD5														
INFLUENT (MG/L)	62.0	66.0	85.0	84.0	100.0	71.0	78.0	112.0	113.0	93.0	137.0	100.0	91.8	
EFFLUENT (MG/L)	8.2	7.8	3.8	4.9	3.4	6.4	1.8	3.1	2.3	3.4	4.2	3.9	4.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	42.47	43.13	20.36	26.60	15.67	28.28	7.99	13.54	9.98	15.19	22.89	18.36	21.38	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	107.0	131.0	120.0	99.0	127.0	136.0	115.0	116.0	122.0	139.0	101.0	135.0	120.7	
EFFLUENT (MG/L)	16.7	22.9	16.4	10.4	9.4	9.5	9.8	7.4	7.1	6.4	10.2	11.6	11.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	86.50	126.63	87.90	56.47	43.33	41.99	43.51	32.33	30.81	28.60	55.59	54.63	55.89	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.2	3.4	5.0	5.5	4.2	6.2	5.4	5.3	4.9	4.8	4.3	3.6	4.7	
EFFLUENT (MG/L)	0.9	0.9	0.7	0.5	0.6	0.5	1.0	0.4	0.7	0.6	0.4	0.3	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	4.66	4.97	3.75	2.71	2.76	2.21	4.44	1.74	3.03	2.68	2.18	1.41	2.92	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE	1988	1991/12	

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MARKDALE
PLANT : MARKDALE LAGOON
WORKS NUMBER : 110000418
TREATMENT : AERATED LAGOON
: PHOSPHORUS REMOVAL-CONTINUOUS
: EXFILTRATION LAGOON
DESIGN CAPACITY : 1.12 (1000 M3)

REGION : SOUTHWEST
DISTRICT : GREY
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : NO DISC.TO SURFACE WATER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,228

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.49	0.55	0.62	0.61	0.55	0.53	0.45	0.54	0.45	0.39	0.38	0.34	0.49	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	160.0	142.0	ND	258.0	456.0	199.0	132.0	171.0	112.0	155.0	127.0	146.0	187.1	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	85.0	216.0	ND	631.0	922.0	465.0	113.0	89.0	75.0	116.0	88.0	190.0	271.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.6	7.3	ND	ND	18.5	15.3	5.3	12.9	10.2	9.6	11.1	8.4	10.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	NA	NO DIRECT DISCHARGE
SS	NA	NO DIRECT DISCHARGE
TP	NA	NO DIRECT DISCHARGE

NOTE:
BOD - HAS NO CRITERIA
SS - HAS NO CRITERIA
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MC GILLIVRAY
PLANT : PARKHILL LAGOON
WORKS NUMBER : 110002461
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 1.10 (1000 M3)

REGION : SOUTHWEST
DISTRICT : MIDDLESEC
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : PARKHILL CREEK
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,375

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.55	0.59	0.65	0.58	0.81	1.09	1.12	1.00	0.54	0.63	0.69	0.65	0.74	
LAGOON DISCHARGE	ND	ND	ND	123.36	ND	ND	ND	ND	ND	ND	ND	ND	123.36	
BOD5														
INFLUENT (MG/L)	165.0	118.0	150.0	127.0	196.0	91.0	111.0	126.0	103.0	118.0	95.0	118.0	126.5	
EFFLUENT (MG/L)	ND	ND	ND	11.8	ND	ND	ND	ND	ND	ND	ND	ND	11.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	6.84	ND	ND	ND	ND	ND	ND	ND	ND	8.73	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	267.0	164.0	115.0	122.0	50.0	57.0	85.0	117.0	88.0	67.0	96.0	138.0	113.8	
EFFLUENT (MG/L)	ND	ND	ND	24.6	ND	ND	ND	ND	ND	ND	ND	ND	24.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	14.26	ND	ND	ND	ND	ND	ND	ND	ND	18.20	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.4	7.5	6.9	7.1	7.6	7.3	8.6	6.9	5.6	5.5	6.7	5.6	6.5	
EFFLUENT (MG/L)	ND	ND	ND	1.3*	ND	ND	ND	ND	ND	ND	ND	ND	1.3	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	0.75	ND	ND	ND	ND	ND	ND	ND	ND	0.96	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED			1989/01
FACILTY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED	1988		1989/01
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE			1989/01

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MEAFORD
PLANT : MEAFORD WPCP
WORKS NUMBER : 110000445
TREATMENT : HIGH RATE
:
:
DESIGN CAPACITY : 3.91 (1000 M3)

REGION : SOUTHWEST
DISTRICT : GREY
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : GEORGIAN BAY
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 4,224

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.21	3.76	3.46	2.88	2.60	2.27	2.01	2.33	2.91	3.43	3.49	3.54	2.99	
BOD5														
INFLUENT (MG/L)	61.0	32.0	49.0	55.0	58.0	54.0	71.0	56.0	33.0	49.0	68.0	69.0	54.6	
EFFLUENT (MG/L)	15.8	17.4	15.9	8.5	7.8	7.3	7.0	4.2	9.3	7.9	11.1	6.1	9.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	50.71	65.42	55.01	24.48	20.28	16.57	14.07	9.78	27.06	27.09	38.73	21.59	29.60	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	60.0	43.0	93.0	59.0	61.0	92.0	114.0	66.0	61.0	48.0	74.0	98.0	72.4	
EFFLUENT (MG/L)	6.8	8.5	7.4	4.9	2.7	3.9	7.7	2.2	7.9	5.1	6.8	8.3	6.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	21.82	31.96	25.60	14.11	7.02	8.85	15.47	5.12	22.98	17.49	23.73	29.38	17.94	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.2	2.2	2.8	3.9	3.8	3.9	5.9	3.9	3.8	4.1	3.2	5.0	3.9	
EFFLUENT (MG/L)	1.8	1.5	1.8	1.9	2.3	2.5	4.1	3.6	2.3	2.1	1.8	2.9	2.4	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	5.77	5.64	6.22	5.47	5.98	5.67	8.24	8.38	6.69	7.20	6.28	10.26	7.18	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW			
FACILTY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED			
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE			1990/12

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MILDMAY
PLANT : MILDMAY WPCP
WORKS NUMBER : 110002194
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 0.96 (1000 M3)

REGION : SOUTHWEST
DISTRICT : BRUCE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : OTTER CREEK
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 915

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.51	0.50	0.59	0.52	0.45	0.42	0.56	0.69	0.65	0.75	0.79	0.80	0.60	
BOD5														
INFLUENT (MG/L)	77.0	97.0	91.0	89.0	91.0	199.0	75.0	72.0	92.0	76.0	62.0	108.0	94.1	
EFFLUENT (MG/L)	6.1	4.7	4.1	3.1	2.3	1.9	2.5	1.7	1.4	1.6	6.4	4.6	3.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.11	2.35	2.41	1.61	1.03	0.79	1.40	1.17	0.91	1.20	5.05	3.68	2.04	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	113.0	147.0	142.0	109.0	139.0	297.0	152.0	133.0	195.0	202.0	101.0	199.0	160.8	
EFFLUENT (MG/L)	6.5	7.5	4.5	2.8	4.9	5.2	7.2	5.0	2.3	7.2	9.6	6.8	5.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.31	3.75	2.65	1.45	2.20	2.18	4.03	3.45	1.49	5.40	7.58	5.44	3.48	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.4	6.6	4.9	5.8	5.6	8.9	5.2	5.4	10.8	5.9	3.9	5.1	6.0	
EFFLUENT (MG/L)	0.4	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.4	0.6	0.6	0.5	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.20	0.30	0.29	0.26	0.22	0.21	0.28	0.41	0.26	0.45	0.47	0.40	0.30	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
M - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MILVERTON
PLANT : MILVERTON LAGOON
WORKS NUMBER : 110001079
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: AERATED CELL PLUS LAGOON
: PHOSPHORUS REMOVAL-CONTINUOUS
DESIGN CAPACITY : 1.01 (1000 M3)

REGION : SOUTHWEST
DISTRICT : PERTH
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : BOYLE DRAIN
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,484

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.88	0.60	0.95	0.75	0.49	0.49	0.44	0.58	1.36	1.32	1.48	1.11	0.87	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	117.0	117.0	96.0	107.0	125.0	115.0	184.0	127.0	244.0	125.0	89.0	150.0	133.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.6	ND	3.6	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.32	ND	3.13	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	121.0	191.0	106.0	64.0	90.0	173.0	281.0	150.0	460.0	115.0	74.0	217.0	170.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	32.6	ND	32.6	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	48.24	ND	28.36	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.2	9.2	6.9	7.4	7.6	9.2	10.7	13.1	12.3	6.7	5.8	8.9	8.7	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	ND	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.74	ND	0.44	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MITCHELL
PLANT : MITCHELL LAGOON
WORKS NUMBER : 110000472
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 3.56 (1000 M3)

REGION : SOUTHWEST
DISTRICT : PERTH
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : THAMES RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,900

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.13	2.36	3.77	2.73	2.69	2.01	1.54	1.84	2.06	2.89	3.46	2.78	2.52	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	770.0	447.0	347.0	736.0	571.0	1,036.0	690.0	926.0	676.0	401.0	ND	ND	660.0	
EFFLUENT (MG/L)	ND	ND	ND	33.7	ND	ND	ND	ND	ND	19.2	20.2	ND	24.4	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	92.00	ND	ND	ND	ND	ND	55.48	69.89	ND	61.49	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	428.0	287.0	389.0	195.0	362.0	772.0	664.0	435.0	366.0	206.0	ND	245.0	395.4	
EFFLUENT (MG/L)	ND	ND	ND	57.9	ND	ND	ND	ND	ND	53.7	64.0	ND	58.5*	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	158.06	ND	ND	ND	ND	ND	155.19	221.44	ND	147.42	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	18.8	9.9	8.7	17.8	19.0	26.5	31.5	16.7	13.1	13.5	ND	14.8	17.3	
EFFLUENT (MG/L)	ND	ND	ND	0.9	ND	ND	ND	ND	ND	0.6	0.8	ND	0.8	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	2.45	ND	ND	ND	ND	ND	1.73	2.76	ND	2.02	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	NO
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED			1989/01
FACILTY EXPANSION/UPGRADING - ENVIRONMENTAL ASSESSMENT BEING CONDUCTED		1991/12	1989/01

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MOORE
PLANT : BRIGDEN P.V. LAGOON
WORKS NUMBER : 110002023
TREATMENT : CONVENTIONAL LAGOON ANNUAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 0.33 (1000 M3)

REGION : SOUTHWEST
DISTRICT : LAMBTON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BEAR CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 641

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.18	0.19	0.21	0.19	0.18	0.18	0.16	0.26	ND	0.18	0.24	0.25	0.20	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	224.0	99.0	169.0	156.0	232.0	147.0	156.0	306.0	ND	191.0	156.0	168.0	182.2	
EFFLUENT (MG/L)	ND	ND	ND	3.9	ND	ND	ND	ND	ND	ND	ND	ND	3.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	0.74	ND	ND	ND	ND	ND	ND	ND	ND	0.78	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	224.0	207.0	187.0	151.0	249.0	160.0	124.0	299.0	ND	155.0	150.0	113.0	183.5	
EFFLUENT (MG/L)	ND	ND	ND	8.2	ND	ND	ND	ND	ND	ND	ND	ND	8.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	1.55	ND	ND	ND	ND	ND	ND	ND	ND	1.64	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	11.9	10.8	11.0	10.0	9.2	10.4	9.9	19.8	ND	10.4	8.0	10.2	11.1	
EFFLUENT (MG/L)	ND	ND	ND	0.7	ND	ND	ND	ND	ND	ND	ND	ND	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	0.13	ND	ND	ND	ND	ND	ND	ND	ND	0.14	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

START DATE	END DATE	ANTICIPATED COMPLIANCE

OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MOORE
PLANT : CORUNNA P.V. WPCP
WORKS NUMBER : 110000481
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 4.54 (1000 M3)

REGION : SOUTHWEST
DISTRICT : LAMBTON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : ST. CLAIR RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 5,431

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.91	1.95	2.15	2.03	1.81	1.70	1.76	1.86	1.97	1.96	2.39	2.08	1.96	
BOD5														
INFLUENT (MG/L)	106.0	126.0	96.0	106.0	132.0	108.0	121.0	81.0	97.0	165.0	79.0	123.0	111.7	
EFFLUENT (MG/L)	4.0	5.9	6.4	5.5	3.5	2.6	1.8	1.7	3.7	3.4	4.8	2.2	3.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	7.64	11.50	13.76	11.16	6.33	4.42	3.16	3.16	7.28	6.66	11.47	4.57	7.45	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	114.0	135.0	92.0	93.0	130.0	121.0	173.0	77.0	168.0	127.0	61.0	158.0	120.8	
EFFLUENT (MG/L)	9.6	16.9	11.2	5.9	6.0	5.2	6.1	5.9	5.5	7.2	10.0	6.1	8.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	18.33	32.95	24.08	11.97	10.86	8.84	10.73	10.97	10.83	14.11	23.90	12.68	15.68	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.7	7.9	7.0	6.9	8.5	7.5	7.4	4.9	6.2	7.8	4.8	7.7	6.9	
EFFLUENT (MG/L)	0.2	0.3	0.5	0.3	0.3	0.3	0.3	0.5	0.6	0.4	0.4	0.3	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.38	0.58	1.07	0.60	0.54	0.51	0.52	0.93	1.18	0.78	0.95	0.62	0.78	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED	1988		

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MOORE
PLANT : COURTRIGHT WPCP
WORKS NUMBER : 110001818
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 0.68 (1000 M3)

REGION : SOUTHWEST
DISTRICT : LAMBTON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : ST CLAIR RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,526

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.48	0.49	0.63	0.71	0.92	0.91	0.93	0.46	0.50	0.53	0.70	0.54	0.65	
BOD5														
INFLUENT (MG/L)	119.0	118.0	146.0	87.0	150.0	121.0	99.0	122.0	156.0	73.0	81.0	184.0	121.3	
EFFLUENT (MG/L)	16.5	ND	4.5	3.1	3.4	2.3	6.0	5.4	8.7	5.7	1.4	7.4	5.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	7.92	ND	2.83	2.20	3.12	2.09	5.58	2.48	4.35	3.02	0.98	3.99	3.84	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	111.0	121.0	126.0	84.0	187.0	188.0	143.0	155.0	200.0	77.0	108.0	223.0	143.6	
EFFLUENT (MG/L)	22.3	14.3	16.9	6.4	9.1	4.6	27.3	12.5	8.9	13.6	9.7	6.2	12.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	10.70	7.00	10.64	4.54	8.37	4.18	25.38	5.75	4.45	7.20	6.79	3.34	8.26	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.2	8.6	8.1	7.1	10.5	1.0	7.8	ND	8.9	5.8	0.7	10.6	6.9	
EFFLUENT (MG/L)	0.3	0.3	0.6	0.4	0.3	0.5	0.8	0.4	0.5	0.4	0.2	0.3	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.14	0.14	0.37	0.28	0.27	0.45	0.74	0.18	0.25	0.21	0.14	0.16	0.26	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NORMANBY
PLANT : NEUSTADT LAGOON
WORKS NUMBER : 110002443
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 0.41 (1000 M3)

REGION : SOUTHWEST
DISTRICT : GREY
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : SOUTH SAUGEEN RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 460

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.15	0.16	0.20	0.16	0.14	0.09	0.07	0.07	0.08	0.15	0.20	0.17	0.14	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26.57	ND	26.57	
BOD5														
INFLUENT (MG/L)	119.0	79.0	153.0	146.0	125.0	180.0	196.0	129.0	153.0	153.0	89.0	137.0	138.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3	ND	1.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.26	ND	0.18	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	139.0	58.0	132.0	167.0	142.0	223.0	170.0	142.0	275.0	142.0	116.0	179.0	157.1	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	19.4	ND	19.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.88	ND	2.72	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.8	2.7	7.5	6.6	11.9	11.2	9.7	8.9	19.4	9.4	5.8	7.3	8.9	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.4	ND	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.08	ND	0.06	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED			
FACILTY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED			1987
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE			

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NORWICH
PLANT : NORWICH LAGOON
WORKS NUMBER : 110001480
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 0.99 (1000 M3)

REGION : SOUTHWEST
DISTRICT : OXFORD
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BIG OTTER CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,173

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.70	0.78	0.91	0.93	0.75	0.60	0.69	0.89	0.73	1.04	1.27	0.94	0.85	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	234.0	280.0	128.0	128.0	144.0	110.0	172.0	198.0	152.0	129.0	62.0	116.0	154.4	
EFFLUENT (MG/L)	ND	ND	ND	10.2	ND	ND	ND	ND	ND	ND	1.7	ND	6.0	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	9.48	ND	ND	ND	ND	ND	ND	2.15	ND	5.10	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	290.0	323.0	257.0	158.0	117.0	77.0	37.0	172.0	212.0	114.0	95.0	107.0	163.3	
EFFLUENT (MG/L)	ND	ND	ND	4.4	ND	ND	ND	ND	ND	ND	1.4	ND	2.9	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	4.09	ND	ND	ND	ND	ND	ND	1.77	ND	2.47	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	14.0	9.9	7.5	6.1	8.1	7.5	8.8	7.9	7.9	7.7	5.8	8.3	8.3	
EFFLUENT (MG/L)	ND	ND	ND	0.2	ND	ND	ND	ND	ND	ND	0.1	ND	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	0.18	ND	ND	ND	ND	ND	ND	0.12	ND	0.17	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW	1988		

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : OIL SPRINGS
PLANT : OIL SPRINGS LAGOON
WORKS NUMBER : 110001998
TREATMENT : CONVENTIONAL LAGOON ANNUAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 0.27 (1000 M3)

REGION : SOUTHWEST
DISTRICT : LAMBTON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BLACK CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 609

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.16	0.17	0.19	0.18	0.17	0.15	0.14	0.14	0.14	1.54	1.90	0.18	0.42	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	97.0	251.0	102.0	112.0	138.0	131.0	97.0	130.0	152.0	140.0	121.8	138.0	134.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	92.0	86.0	112.0	100.0	119.0	144.0	98.0	113.0	148.0	126.9	198.5	145.0	123.5	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.2	7.2	7.8	8.3	8.8	9.8	5.9	11.4	11.0	11.9	9.5	10.1	9.1	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	NO DISCHARGE
SS	25.0 MG/L	NO DISCHARGE
TP	1.0 MG/L	NO DISCHARGE

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

START DATE	END DATE	ANTICIPATED COMPLIANCE

OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : OWEN SOUND
PLANT : OWEN SOUND WPCP
WORKS NUMBER : 110000551
TREATMENT : PRIMARY
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 24.54 (1000 M3)

REGION : SOUTHWEST
DISTRICT : GREY
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : GEORGIAN BAY
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 20,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	14.89	19.53	16.49	13.60	10.78	11.25	12.41	13.75	19.32	18.23	17.20	15.22	
BOD5														
INFLUENT (MG/L)	ND	58.0	91.0	47.0	54.0	99.0	158.0	109.0	69.0	49.0	86.0	84.0	82.2	
EFFLUENT (MG/L)	ND	20.9	34.7	29.6	29.3	36.1	17.0	18.2	17.6	29.0	21.4	27.1	25.5	
LOADING (KG/D)	ND	311.20	677.69	488.10	398.48	389.15	191.25	225.86	242.00	560.28	390.12	466.12	388.11	
PERCENT REMOVAL		64	62	37	46	64	89	83	74	41	75	68	69	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	141.0	122.0	88.0	125.0	149.0	132.0	112.0	126.0	83.0	109.0	114.0	118.3	
EFFLUENT (MG/L)	ND	36.3	24.5	36.4	19.3	23.7	21.4	19.5	24.9	16.6	25.2	24.2	24.7	
LOADING (KG/D)	ND	540.50	478.48	600.23	262.48	255.48	240.75	241.99	342.37	320.71	459.39	416.24	375.93	
PERCENT REMOVAL		74	80	59	85	84	84	83	80	80	77	79	79	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	3.0	5.0	4.0	4.0	7.5	5.8	5.5	3.8	2.6	3.8	4.3	4.5	
EFFLUENT (MG/L)	ND	0.6	0.6	0.5	0.7	0.8	0.6	0.9	0.3	0.4	0.7	0.8	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	8.93	11.71	8.24	9.52	8.62	6.75	11.16	4.12	7.72	12.76	13.76	9.13	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	50%	YES
SS	70%	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
M - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM - ENFORCING SEWER-USE BYLAWS	1988	1990	1989/01
INFLUENT SEWAGE - INSTALLING INDUSTRIAL PRETREATMENT	1988/06		1989/01
SLUDGE DISPOSAL/REMOVAL - UPGRADING SLUDGE STORAGE FACILITIES	1988/10	1989/09	1989/01
NO ACTION - MARGINAL FAILURE-MONITORING LEVEL OF FAILED PARAMETER CLOSELY			1989/01

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PAISLEY
PLANT : PAISLEY WPCP
WORKS NUMBER : 110001907
TREATMENT : OXIDATION DITCH
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 0.70 (1000 M3)

REGION : SOUTHWEST
DISTRICT : BRUCE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : SAUGEEN RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 653

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.39	0.37	0.44	0.38	0.34	0.35	0.30	0.31	0.34	0.41	0.45	0.44	0.38	
BOD5														
INFLUENT (MG/L)	68.0	139.0	98.0	70.0	88.0	72.0	68.0	75.0	70.0	129.0	72.0	84.0	86.1	
EFFLUENT (MG/L)	7.0	7.0	3.0	2.0	4.0	3.0	2.0	1.0	2.0	3.0	2.6	7.2	3.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2.73	2.59	1.32	0.76	1.36	1.05	0.60	0.31	0.68	1.23	1.17	3.16	1.41	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	101.0	123.0	118.0	168.0	87.0	167.0	207.0	72.0	84.0	117.0	45.0	107.0	116.3	
EFFLUENT (MG/L)	16.0	9.0	1.0	1.0	5.0	2.0	3.0	2.0	4.0	3.2	1.7	1.5	4.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	6.24	3.33	0.44	0.38	1.70	0.70	0.90	0.62	1.36	1.31	0.76	0.66	1.56	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.7	4.8	5.2	4.8	4.8	6.3	5.9	4.0	4.8	4.6	4.6	4.4	4.9	
EFFLUENT (MG/L)	0.7	0.4	0.3	0.3	0.7	0.9	0.9	0.7	0.6	0.4	0.2	0.2	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.27	0.14	0.13	0.11	0.23	0.31	0.27	0.21	0.20	0.16	0.09	0.08	0.19	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
EQUIPMENT/MAINTENANCE - EXISTING EQUIPMENT BEING REPAIRED	1988/04	1988/11	
SLUDGE DISPOSAL/REMOVAL - UPGRADING SLUDGE STORAGE FACILITIES	1988/05	1990/12	

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PETROLIA
PLANT : PETROLIA WPCP + LAGOON
WORKS NUMBER : 110000579
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
DESIGN CAPACITY : 3.18 (1000 M3)

REGION : SOUTHWEST
DISTRICT : LAMBTON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BEAR CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 4,168

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.46	1.47	1.69	1.47	1.50	1.35	1.35	1.15	1.21	1.46	1.65	1.50	1.44	
BOD5														
INFLUENT (MG/L)	135.0	190.0	162.0	204.0	190.0	150.0	161.0	139.0	151.0	129.0	224.0	162.0	166.4	
EFFLUENT (MG/L)	3.0	2.5	1.6	1.0	1.4	1.3	0.8	2.1	1.7	2.0	2.5	1.3	1.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	4.38	3.67	2.70	1.47	2.10	1.75	1.08	2.41	2.05	2.92	4.12	1.95	2.59	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	214.0	291.0	247.0	310.0	276.0	247.0	217.0	139.0	205.0	299.0	137.0	305.0	240.6	
EFFLUENT (MG/L)	2.4	3.3	0.7	0.3	0.4	0.8	1.4	1.3	4.5	1.5	1.6	0.2	1.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.50	4.85	1.18	0.44	0.60	1.08	1.89	1.49	5.44	2.19	2.64	0.30	2.16	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.3	8.1	8.2	8.3	8.3	8.6	7.9	9.7	8.4	8.8	7.8	12.9	8.8	
EFFLUENT (MG/L)	0.2	0.4	0.2	0.2	0.4	0.3	0.4	0.3	0.5	0.9	0.9	0.2	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.29	0.58	0.33	0.29	0.60	0.40	0.54	0.34	0.60	1.31	1.48	0.30	0.58	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
SLUDGE DISPOSAL/REMOVAL - UPGRADING SLUDGE THICKENING FACILITIES	1988	1989/12	

1986 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PLYMPTON
PLANT : WYOMING WPCP
WORKS NUMBER : 110002489
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
DESIGN CAPACITY : 1.12 (1000 M3)

REGION : SOUTHWEST
DISTRICT : LAMBTON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : STONEHOUSE DRAIN
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,791

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.46	0.45	0.51	0.45	0.47	0.42	0.44	0.43	0.42	0.46	0.50	0.48	0.46	
BOD5														
INFLUENT (MG/L)	156.0	184.0	165.0	135.0	166.0	165.0	169.0	200.0	180.0	112.0	177.0	180.0	165.8	
EFFLUENT (MG/L)	7.4	2.4	1.5	0.9	1.3	1.2	4.0	2.5	3.3	2.3	5.8	4.6	3.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.40	1.08	0.76	0.40	0.61	0.50	1.76	1.07	1.38	1.05	2.90	2.20	1.43	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	199.0	198.0	210.0	268.0	172.0	236.0	295.0	206.0	212.0	108.0	277.0	206.0	215.6	
EFFLUENT (MG/L)	8.8	2.8	0.7	0.1	0.5	4.6	6.7	4.5	3.7	1.4	1.7	6.5	3.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	4.04	1.26	0.35	0.04	0.23	1.93	2.94	1.93	1.55	0.64	0.85	3.12	1.61	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	12.0	11.3	10.9	15.3	11.6	11.9	12.2	12.5	10.6	10.4	13.9	12.4	12.1	
EFFLUENT (MG/L)	0.3	0.4	0.2	0.2	0.4	0.3	0.4	0.3	0.5	0.9	0.6	0.3	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.13	0.18	0.10	0.09	0.18	0.12	0.17	0.12	0.21	0.41	0.30	0.14	0.18	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : POINT EDWARD
PLANT : POINT EDWARD WPCP
WORKS NUMBER : 110000597
TREATMENT : PRIMARY
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 2.59 (1000 M3)

REGION : SOUTHWEST
DISTRICT : LAMBTON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : ST. CLAIR RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,210

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.52	1.44	1.54	1.56	1.55	1.68	1.91	1.82	1.69	1.58	1.61	1.47	1.61	
BODS														
INFLUENT (MG/L)	77.0	82.0	70.0	173.0	43.0	76.0	116.0	62.0	84.0	43.0	71.0	62.0	79.9	
EFFLUENT (MG/L)	70.6	51.9	61.1	67.5	63.5	42.4	33.2	36.8	40.5	48.4	60.7	75.2	56.0	
LOADING (KG/D)	107.31	74.73	94.09	105.30	98.42	71.23	63.41	66.97	68.44	76.47	129.92	110.54	90.16	
PERCENT REMOVAL	08	37	13	61	ND	44	71	41	52	ND	ND	ND	30*	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	138.0	130.0	90.0	526.0	109.0	117.0	161.0	54.0	312.0	41.0	101.0	56.0	152.9	
EFFLUENT (MG/L)	36.8	43.3	31.6	78.0	55.0	17.8	36.7	31.5	36.5	34.3	57.5	41.6	41.7	
LOADING (KG/D)	55.93	62.35	48.66	121.68	85.25	29.90	70.09	57.33	61.68	54.19	92.57	61.15	67.14	
PERCENT REMOVAL	73	67	65	85	50	85	77	42	88	16	43	26	73	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.9	5.1	7.4	28.3	2.8	4.4	5.8	3.7	11.4	4.3	5.7	6.3	7.7	
EFFLUENT (MG/L)	1.3*	1.4*	1.6*	2.1*	1.3*	1.0	2.3*	1.5*	1.3*	2.1*	2.6*	2.1*	1.7	11
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	1.97	2.01	2.46	3.27	2.01	1.68	4.39	2.73	2.19	3.31	4.18	3.08	2.74	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	50%	NO
SS	70%	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - ENVIRONMENTAL ASSESSMENT BEING CONDUCTED	1988	1991/12	1992/01

1988 CERTIFICATE OF APPROVAL ASSESSMENT

MUNICIPALITY : PORT BURWELL
PLANT : PORT BURWELL WPCP
WORKS NUMBER : 110001319
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 0.52 (1000 M3)

REGION : SOUTHWEST
DISTRICT : ELGIN
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BIG OTTER CR.- LAKE ERIE
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 780

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.17	0.19	0.20	0.17	0.17	0.16	0.23	0.26	0.26	0.21	0.18	0.18	0.20	
BOD5														
INFLUENT (MG/L)	242.0	223.0	258.0	224.0	238.0	221.0	238.0	231.0	179.0	231.0	221.0	208.0	226.2	
EFFLUENT (MG/L)	11.9	10.3	13.8	1.3	12.3	4.7	4.9	2.3	6.5	4.3	2.1	1.3	6.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2.02	1.95	2.76	0.22	2.09	0.75	1.12	0.59	1.69	0.90	0.37	0.23	1.26	
LOADING LIMIT (KG/D)													13.20	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	208.0	239.0	336.0	203.0	177.0	238.0	194.0	222.0	247.0	227.0	175.0	259.0	227.1	
EFFLUENT (MG/L)	20.6	17.0	14.9	16.2	17.3	12.9	11.3	8.8	14.4	12.1	11.1	5.4	13.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.50	3.23	2.98	2.75	2.94	2.06	2.59	2.28	3.74	2.54	1.99	0.97	2.70	
LOADING LIMIT (KG/D)													13.20	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	15.7	11.9	12.7	11.0	12.3	14.9	12.1	12.1	11.5	11.4	12.8	15.0	12.8	
EFFLUENT (MG/L)	0.8	0.5	0.5	0.4	0.7	0.4	0.9	0.3	1.3	1.3	0.5	0.2	0.7	
CONCENTRATION LIMIT (MG/L)													1.0	
LOADING (KG/D)	0.13	0.09	0.10	0.06	0.11	0.06	0.20	0.07	0.33	0.27	0.09	0.03	0.14	
LOADING LIMIT (KG/D)													0.53	

SUMMARY

PARM	CRITERIA	LOADING	COMPLIES WITH CONC	LOADING
BOD	25.0 MG/L	13.20 KG/D	YES	YES
SS	25.0 MG/L	13.20 KG/D	YES	YES
TP	1.0 MG/L	0.53 KG/D	YES	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED ANNUALLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED	1988/09	1988/10	1988/11
OPERATIONAL/PROCESS - CONDUCTING TREATABILITY STUDIES	1988/09	1988/10	1988/11
FACILTY EXPANSION/UPGRADING - FINAL DESIGN PHASE	1988	1989/12	

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PORT BURWELL
PLANT : PORT BURWELL WPCP
WORKS NUMBER : 110001319
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 0.52 (1000 M3)

REGION : SOUTHWEST
DISTRICT : ELGIN
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BIG OTTER CR.- LAKE ERIE
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 780

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.17	0.19	0.20	0.17	0.17	0.16	0.23	0.26	0.26	0.21	0.18	0.18	0.20	
BOD5														
INFLUENT (MG/L)	242.0	223.0	258.0	224.0	238.0	221.0	238.0	231.0	179.0	231.0	221.0	208.0	226.2	
EFFLUENT (MG/L)	11.9	10.3	13.8	1.3	12.3	4.7	4.9	2.3	6.5	4.3	2.1	1.3	6.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2.02	1.95	2.76	0.22	2.09	0.75	1.12	0.59	1.69	0.90	0.37	0.23	1.26	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	208.0	239.0	336.0	203.0	177.0	238.0	194.0	222.0	247.0	227.0	175.0	259.0	227.1	
EFFLUENT (MG/L)	20.6	17.0	14.9	16.2	17.3	12.9	11.3	8.8	14.4	12.1	11.1	5.4	13.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.50	3.23	2.98	2.75	2.94	2.06	2.59	2.28	3.74	2.54	1.99	0.97	2.70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	15.7	11.9	12.7	11.0	12.3	14.9	12.1	12.1	11.5	11.4	12.8	15.0	12.8	
EFFLUENT (MG/L)	0.8	0.5	0.5	0.4	0.7	0.4	0.9	0.3	1.3*	1.3*	0.5	0.2	0.7	2
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.13	0.09	0.10	0.06	0.11	0.06	0.20	0.07	0.33	0.27	0.09	0.03	0.14	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED	1988/09	1988/10	1988/11
OPERATIONAL/PROCESS - CONDUCTING TREATABILITY STUDIES	1988/09	1988/10	1988/11
FACILTY EXPANSION/UPGRADING - FINAL DESIGN PHASE	1988	1989/12	

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PORT ELGIN
PLANT : PORT ELGIN WPCP
WORKS NUMBER : 120001470
TREATMENT : OXIDATION DITCH
:
:
DESIGN CAPACITY : 6.45 (1000 M3)

REGION : SOUTHWEST
DISTRICT : BRUCE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : SAUGEEN RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 6,115

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	5.08	5.32	5.25	5.58	4.49	3.78	3.62	3.79	3.71	3.75	4.21	4.47	4.42	
BOD5														
INFLUENT (MG/L)	55.5	95.0	66.0	81.0	43.4	ND	ND	85.0	89.0	76.0	79.0	123.0	79.3	
EFFLUENT (MG/L)	14.4	8.4	19.9	12.3	8.7	ND	ND	1.4	4.6	3.8	4.5	8.4	8.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	73.15	44.68	104.47	68.63	39.06	ND	ND	5.30	17.06	14.25	18.94	37.54	38.01	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	68.1	95.1	90.0	111.0	334.6	ND	132.0	121.0	138.0	83.0	84.0	181.0	130.7	
EFFLUENT (MG/L)	5.1	8.7	19.6	8.1	3.4	ND	3.4	0.2	6.0	2.8	2.3	4.8	5.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	25.90	46.28	102.90	45.19	15.26	ND	12.30	0.75	22.26	10.50	9.68	21.45	26.08	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.3	3.6	1.8	4.3	4.1	ND	4.3	4.5	4.6	3.6	4.6	6.6	4.1	
EFFLUENT (MG/L)	1.4	1.6	1.9	0.5	0.3	ND	0.3	0.2	0.7	0.6	0.6	0.9	0.8	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	7.11	8.51	9.97	2.79	1.34	ND	1.08	0.75	2.59	2.25	2.52	4.02	3.54	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PORT STANLEY
PLANT : PORT STANLEY LAGOON
WORKS NUMBER : 110001373
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 1.49 (1000 M3)

REGION : SOUTHWEST
DISTRICT : ELGIN
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : DITCH TO KETTLE CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,416

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.99	1.00	0.98	1.10	1.13	1.16	1.27	1.28	1.21	1.10	1.13	1.11	1.12	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	80.63	113.85	ND	97.24	
BOD5														
INFLUENT (MG/L)	43.0	56.0	76.0	116.0	201.0	138.0	103.0	58.0	95.0	45.0	68.0	48.0	87.3	
EFFLUENT (MG/L)	ND	ND	ND	7.6	3.9	ND	ND	ND	ND	7.6	9.2	ND	7.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	8.36	4.40	ND	ND	ND	ND	8.36	10.39	ND	7.95	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	62.0	54.0	80.0	45.0	75.0	137.0	66.0	50.0	84.0	23.0	57.0	67.0	66.7	
EFFLUENT (MG/L)	ND	ND	ND	21.6	8.1	ND	ND	ND	ND	13.6	22.9	ND	16.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	23.76	9.15	ND	ND	ND	ND	14.96	25.87	ND	18.59	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.2	3.2	4.8	4.6	5.8	6.9	4.0	3.7	3.9	3.3	3.5	2.6	4.1	
EFFLUENT (MG/L)	ND	ND	ND	0.2	0.2	ND	ND	ND	ND	0.3	0.4	ND	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	0.22	0.22	ND	ND	ND	ND	0.33	0.45	ND	0.34	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED			
FACILTY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED	1988	1991/12	
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE			

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : RALEIGH-TILBURY EAST
PLANT : MERLIN PV LAGOON
WORKS NUMBER : 110000935
TREATMENT : CONVENTIONAL LAGOON ANNUAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 0.46 (1000 M3)

REGION : SOUTHWEST
DISTRICT : KENT
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : FOXTON DR.- JEANETTES CK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 523

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.17	0.17	0.18	0.19	0.16	0.15	0.12	0.12	0.12	0.13	0.16	0.15	0.15	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	143.0	204.0	160.0	215.0	228.0	181.0	198.0	359.0	130.0	246.0	180.0	460.0	225.3	
EFFLUENT (MG/L)	ND	ND	ND	4.0	ND	ND	ND	ND	ND	ND	ND	ND	4.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	0.76	ND	ND	ND	ND	ND	ND	ND	ND	0.60	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	127.0	202.0	176.0	148.0	143.0	150.0	234.0	154.0	121.0	114.0	117.0	811.0	208.1	
EFFLUENT (MG/L)	ND	ND	ND	36.2	ND	ND	ND	ND	ND	ND	ND	ND	36.2*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	6.87	ND	ND	ND	ND	ND	ND	ND	ND	5.43	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.2	12.7	6.8	9.0	7.3	9.1	12.2	8.5	8.3	11.1	7.0	8.2	9.0	
EFFLUENT (MG/L)	ND	ND	ND	0.2	ND	ND	ND	ND	ND	ND	ND	ND	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	0.03	ND	ND	ND	ND	ND	ND	ND	ND	0.03	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	NO
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED			1989
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE			1989

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : RIDGETOWN
PLANT : RIDGETOWN LAGOON
WORKS NUMBER : 110001364
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 1.33 (1000 M3)

REGION : SOUTHWEST
DISTRICT : KENT
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : GAWNE DR TO MCGREGOR CK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,152

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.07	1.03	1.10	1.03	0.95	0.87	0.79	0.83	0.91	0.93	1.01	0.99	0.96	
LAGOON DISCHARGE	ND	ND	126.50	ND	ND	ND	ND	ND	ND	ND	297.49	ND	212.00	
BOD5														
INFLUENT (MG/L)	101.0	133.0	96.0	150.0	159.0	117.0	192.0	184.0	138.0	158.0	115.0	198.0	145.1	
EFFLUENT (MG/L)	ND	ND	29.4	ND	ND	ND	ND	ND	ND	ND	19.2	ND	24.3	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	32.34	ND	ND	ND	ND	ND	ND	ND	19.39	ND	23.33	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	206.0	177.0	173.0	244.0	129.0	213.0	254.0	167.0	219.0	171.0	133.0	283.0	197.4	
EFFLUENT (MG/L)	ND	ND	65.4	ND	ND	ND	ND	ND	ND	ND	67.1	ND	66.3*	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	71.94	ND	ND	ND	ND	ND	ND	ND	67.77	ND	63.65	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.4	7.5	7.2	9.3	8.1	8.7	8.4	6.7	7.1	8.4	7.2	8.8	7.8	
EFFLUENT (MG/L)	ND	ND	1.6*	ND	ND	ND	ND	ND	ND	ND	0.9	ND	1.3	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	1.76	ND	ND	ND	ND	ND	ND	ND	0.90	ND	1.25	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	NO
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - OPERATIONAL PROCEDURES BEING UPGRADED	1988/03		
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED	1988/11		1989/01

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : RODNEY
PLANT : RODNEY LAGOON
WORKS NUMBER : 110001667
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 0.54 (1000 M3)

REGION : SOUTHWEST
DISTRICT : ELGIN
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : SIXTEEN MILE CK.
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,032

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.47	0.46	0.48	0.49	0.45	0.42	0.42	0.38	0.39	0.41	0.38	0.35	0.43	
LAGOON DISCHARGE	ND	ND	ND	106.83	ND	ND	ND	ND	ND	ND	87.41	ND	97.12	
BOD5														
INFLUENT (MG/L)	1,728.0	732.0	1,260.0	458.0	320.0	245.0	95.0	128.0	69.0	22.0	84.0	386.0	460.6	
EFFLUENT (MG/L)	ND	ND	ND	24.0	ND	ND	ND	ND	ND	ND	11.7	ND	17.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	11.76	ND	ND	ND	ND	ND	ND	4.44	ND	7.70	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	2,483.0	226.0	622.0	180.0	124.0	95.0	40.0	78.0	62.0	31.0	13.0	460.0	367.8	
EFFLUENT (MG/L)	ND	ND	ND	35.4	ND	ND	ND	ND	ND	ND	20.0	ND	27.7*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	17.34	ND	ND	ND	ND	ND	ND	7.60	ND	11.91	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	13.0	10.0	18.0	7.6	0.8	6.9	4.5	9.1	3.3	2.8	3.1	10.9	7.5	
EFFLUENT (MG/L)	ND	ND	ND	0.6	ND	ND	ND	ND	ND	ND	0.5	ND	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	0.29	ND	ND	ND	ND	ND	ND	0.19	ND	0.26	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	NO
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - FINAL DESIGN PHASE			1991

1988 CERTIFICATE OF APPROVAL ASSESSMENT

MUNICIPALITY : ROMNEY TWP-WHEATLY VILL
PLANT : WHEATLY WPCP
WORKS NUMBER : 110003246
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 2.75 (1000 M3)

REGION : SOUTHWEST
DISTRICT : KENT
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : LAKE ERIE
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,328

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.69	0.72	0.87	1.05	0.88	0.80	0.77	0.81	0.86	0.88	0.92	0.80	0.84	
BOD5														
INFLUENT (MG/L)	307.0	122.0	257.0	231.0	632.0	519.0	546.0	400.0	360.0	388.0	396.0	259.0	368.1	
EFFLUENT (MG/L)	2.2	1.2	2.3	2.7	1.4	1.7	1.2	1.3	1.9	2.2	2.5	2.7	1.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.51	0.86	2.00	2.83	1.23	1.36	0.92	1.05	1.63	1.93	2.30	2.16	1.60	
LOADING LIMIT (KG/D)													68.80	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	234.0	255.0	295.0	297.0	392.0	306.0	414.0	364.0	301.0	488.0	343.0	200.0	324.1	
EFFLUENT (MG/L)	9.7	10.2	8.8	4.7	5.5	4.3	5.4	5.0	5.0	6.8	6.1	11.6	6.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	6.69	7.34	7.65	4.93	4.84	3.44	4.15	4.05	4.30	5.98	5.61	9.28	5.80	
LOADING LIMIT (KG/D)													68.80	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	12.5	8.4	10.3	10.7	24.1	19.5	12.6	13.0	12.8	13.1	12.1	11.2	13.4	
EFFLUENT (MG/L)	0.5	0.8	0.5	0.4	0.4	0.5	0.4	0.2	0.4	0.4	0.3	0.6	0.5	
CONCENTRATION LIMIT (MG/L)													1.0	
LOADING (KG/D)	0.34	0.57	0.43	0.42	0.35	0.40	0.30	0.16	0.34	0.35	0.27	0.48	0.42	
LOADING LIMIT (KG/D)													2.75	

SUMMARY

PARM	CRITERIA	LOADING	COMPLIES WITH CONC	LOADING
BOD	25.0 MG/L	68.80 KG/D	YES	YES
SS	25.0 MG/L	68.80 KG/D	YES	YES
TP	1.0 MG/L	2.75 KG/D	YES	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED ANNUALLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED		1988

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ROMNEY TWP-WHEATLY VILL
PLANT : WHEATLY WPCP
WORKS NUMBER : 110003246
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 2.75 (1000 M3)

REGION : SOUTHWEST
DISTRICT : KENT
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : LAKE ERIE
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,328

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.69	0.72	0.87	1.05	0.88	0.80	0.77	0.81	0.86	0.88	0.92	0.80	0.84	
BOD5														
INFLUENT (MG/L)	307.0	122.0	257.0	231.0	632.0	519.0	546.0	400.0	360.0	388.0	396.0	259.0	368.1	
EFFLUENT (MG/L)	2.2	1.2	2.3	2.7	1.4	1.7	1.2	1.3	1.9	2.2	2.5	2.7	1.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.51	0.86	2.00	2.83	1.23	1.36	0.92	1.05	1.63	1.93	2.30	2.16	1.60	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	234.0	255.0	295.0	297.0	392.0	306.0	414.0	364.0	301.0	488.0	343.0	200.0	324.1	
EFFLUENT (MG/L)	9.7	10.2	8.8	4.7	5.5	4.3	5.4	5.0	5.0	6.8	6.1	11.6	6.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	6.69	7.34	7.65	4.93	4.84	3.44	4.15	4.05	4.30	5.98	5.61	9.28	5.80	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	12.5	8.4	10.3	10 7	24.1	19.5	12.6	13.0	12.8	13.1	12.1	11.2	13.4	
EFFLUENT (MG/L)	0.5	0.8	0.5	0 4	0.4	0.5	0.4	0.2	0.4	0.4	0.3	0.6	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.34	0.57	0.43	0.42	0.35	0.40	0.30	0.16	0.34	0.35	0.27	0.48	0.42	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE!
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED	1988		

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : SARNIA
PLANT : BRIGHT'S GROVE LAGOON
WORKS NUMBER : 110001989
TREATMENT : CONVENTIONAL LAGOON SEASONAL
:
:
DESIGN CAPACITY : 1.75 (1000 M3)

REGION : SOUTHWEST
DISTRICT : LAMBTON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : CREEK TO L.HURON
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.04	1.06	0.62	1.03	1.06	1.02	1.01	1.27	1.08	1.12	1.27	1.14	1.06	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	183.0	165.0	104.0	63.0	350.0	126.0	325.0	127.0	137.0	102.0	100.0	109.0	157.6	
EFFLUENT (MG/L)	ND	ND	27.0	ND	ND	ND	ND	ND	13.4	18.6	ND	ND	19.7	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	16.74	ND	ND	ND	ND	ND	14.47	20.83	ND	ND	20.88	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	140.0	157.0	122.0	79.0	2,129.0	106.0	242.0	187.0	119.0	210.0	140.0	86.0	309.8	
EFFLUENT (MG/L)	ND	ND	26.9	ND	ND	ND	ND	ND	20.3	29.3	ND	ND	25.5	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	16.67	ND	ND	ND	ND	ND	21.92	32.81	ND	ND	27.03	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.7	6.3	7.3	6.6	23.5	9.5	6.1	8.6	6.8	8.6	6.7	8.5	8.9	
EFFLUENT (MG/L)	ND	ND	3.7	ND	ND	ND	ND	ND	2.1	4.6	ND	ND	3.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	2.29	ND	ND	ND	ND	ND	2.26	5.15	ND	ND	3.71	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

START DATE	END DATE	ANTICIPATED COMPLIANCE

OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : SARNIA
PLANT : SARNIA WPCP
WORKS NUMBER : 120000907
TREATMENT : PRIMARY
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 65.91 (1000 M3)

REGION : SOUTHWEST
DISTRICT : LAMBION
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : ST. CLAIR RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 64,475

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	52.28	54.46	52.28	54.50	ND	47.53	58.84	55.21	52.09	52.98	46.02	ND	52.62	
BOD5														
INFLUENT (MG/L)	ND	185.0	140.0	157.0	ND	166.0	ND	148.0	206.0	170.0	168.0	ND	167.5	
EFFLUENT (MG/L)	ND	51.0	48.0	84.0	ND	59.0	ND	51.0	82.0	75.0	65.0	ND	64.4	
LOADING (KG/D)	ND	2777.46	2509.44	4578.00	ND	2804.27	ND	2815.71	4271.38	3973.50	2991.30	ND	3388.73	
PERCENT REMOVAL		72	66	46		64		66	60	56	61		62	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	240.0	277.0	249.0	ND	299.0	96.0	118.0	112.0	130.0	118.0	ND	182.1	
EFFLUENT (MG/L)	29.0	24.0	32.0	45.0	ND	30.0	15.0	16.0	18.0	21.0	17.0	ND	24.7	
LOADING (KG/D)	1516.12	1307.04	1672.96	2452.50	ND	1425.90	882.60	883.36	937.62	1112.58	782.34	ND	1299.71	
PERCENT REMOVAL		90	88	82		90	84	86	84	84	86		86	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	7.3	7.2	6.5	ND	6.3	4.4	5.1	4.5	5.2	5.1	ND	5.7	
EFFLUENT (MG/L)	1.1*	0.9	0.8	1.3*	ND	0.9	0.6	0.5	0.7	0.7	0.7	ND	0 A	2
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	57.50	49.01	41.82	70.85	ND	42.77	35.30	27.60	36.46	37.08	32.21	ND	42.10	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	50%	INSUFFICIENT DATA
SS	70%	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : SEAFORTH
PLANT : SEAFORTH LAGOON
WORKS NUMBER : 110001177
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 1.01 (1000 M3)

REGION : SOUTHWEST
DISTRICT : HURON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : CRESSWELL CREEK
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,140

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.71	1.90	3.00	2.18	1.68	1.28	0.99	1.09	0.97	1.42	2.10	2.07	1.70	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	23.0	69.0	89.0	130.0	38.0	151.0	327.0	209.0	474.0	234.0	283.0	239.0	188.8	
EFFLUENT (MG/L)	ND	ND	22.8	18.0	ND	ND	ND	ND	ND	10.5	15.8	ND	16.8	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	68.40	39.24	ND	ND	ND	ND	ND	14.91	33.18	ND	28.56	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	185.0	80.0	120.0	158.0	78.0	160.0	275.0	221.0	655.0	221.0	263.0	212.0	219.0	
EFFLUENT (MG/L)	ND	ND	19.9	17.4	ND	ND	ND	ND	ND	12.0	22.4	ND	17.9	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	59.70	37.93	ND	ND	ND	ND	ND	17.04	47.04	ND	30.43	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.8	3.8	6.8	7.6	2.9	4.5	5.7	3.7	4.9	5.9	3.8	3.0	4.8	
EFFLUENT (MG/L)	ND	ND	0.5	0.6	ND	ND	ND	ND	ND	0.6	0.6	ND	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	1.50	1.30	ND	ND	ND	ND	ND	0.85	1.26	ND	1.02	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE	1988	1991/12	

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : SOMBRA
PLANT : PORT LAMBTON LAGOON
WORKS NUMBER : 110001694
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 1.08 (1000 M3)

REGION : SOUTHWEST
DISTRICT : LAMBTON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : MARSHY CK.TO ST.CLAIR R.
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 900

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.40	0.39	0.39	0.39	0.35	0.35	0.36	0.36	0.35	0.35	0.42	0.39	0.38	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	161.0	112.0	207.0	161.0	165.0	94.0	122.0	137.0	243.0	128.0	86.0	202.0	151.5	
EFFLUENT (MG/L)	ND	ND	ND	12.4	ND	ND	ND	ND	ND	ND	ND	ND	12.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	4.83	ND	ND	ND	ND	ND	ND	ND	ND	4.71	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	197.0	127.0	323.0	200.0	221.0	128.0	151.0	80.0	357.0	103.0	109.0	253.0	187.4	
EFFLUENT (MG/L)	ND	ND	ND	46.9	ND	ND	ND	ND	ND	ND	ND	ND	46.9*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	18.29	ND	ND	ND	ND	ND	ND	ND	ND	17.82	
TOTAL PHOSPHORUS														
INFLUENT (MG/L)	6.9	7.7	8.2	8.3	8.3	8.4	7.5	7.5	8.7	7.4	6.0	10.0	7.9	
EFFLUENT (MG/L)	ND	ND	ND	0.9	ND	ND	ND	ND	ND	ND	ND	ND	0.9	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	0.35	ND	ND	ND	ND	ND	ND	ND	ND	0.34	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	NO
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED	1988	1990/12	1989/01
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE	1988	1990/12	1989/01

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : SOMBRA
PLANT : SOMBRA LAGOON
WORKS NUMBER : 110001685
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 0.96 (1000 M3)

REGION : SOUTHWEST
DISTRICT : LAMBTON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : ST. CLAIR RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 641

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.18	0.20	0.19	0.18	0.22	0.15	0.19	0.25	0.21	0.24	0.25	0.19	0.20	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	456.0	92.0	224.0	103.0	222.0	126.0	93.0	93.0	106.0	75.0	64.0	98.0	146.0	
EFFLUENT (MG/L)	ND	ND	ND	17.0	ND	ND	ND	ND	ND	ND	ND	ND	17.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	3.06	ND	ND	ND	ND	ND	ND	ND	ND	3.40	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	730.0	55.0	281.0	112.0	249.0	127.0	76.0	65.0	140.0	82.0	58.0	70.0	170.4	
EFFLUENT (MG/L)	ND	ND	ND	77.8	ND	ND	ND	ND	ND	ND	ND	ND	77.8*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	14.00	ND	ND	ND	ND	ND	ND	ND	ND	15.56	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	9.9	6.3	8.9	6.9	9.9	8.8	6.4	5.6	5.7	5.2	4.8	6.2	7.1	
EFFLUENT (MG/L)	ND	ND	ND	0.5	ND	ND	ND	ND	ND	ND	ND	ND	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	0.09	ND	ND	ND	ND	ND	ND	ND	ND	0.10	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	NO
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE

START DATE	END DATE	ANTICIPATED COMPLIANCE
1988	1990/12	1989/01
1988	1990/12	1989/01

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : SOUTHAMPTON
PLANT : SOUTHAMPTON WPCP
WORKS NUMBER : 110001453
TREATMENT : OXIDATION DITCH
DESIGN CAPACITY : 3.04 (1000 M3)

REGION : SOUTHWEST
DISTRICT : BRUCE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : SAUGEEN R.
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,866

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.26	1.20	1.42	1.46	1.20	1.01	1.25	1.26	1.17	1.37	1.46	1.39	1.29	
BOD5														
INFLUENT (MG/L)	55.0	74.0	68.0	55.0	68.0	109.0	92.0	87.0	68.0	48.0	72.0	52.0	70.7	
EFFLUENT (MG/L)	6.0	4.6	5.4	10.2	3.0	1.9	1.3	1.5	1.7	2.3	2.6	2.4	3.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	7.56	5.52	7.66	14.89	3.60	1.91	1.62	1.89	1.98	3.15	3.79	3.33	4.64	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	75.0	106.0	120.0	120.0	112.0	148.0	95.0	150.0	88.0	78.0	99.0	115.0	108.8	
EFFLUENT (MG/L)	5.0	6.0	7.0	7.7	4.7	3.1	1.8	1.5	2.0	2.6	3.1	3.9	4.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	6.30	7.20	9.94	11.24	5.64	3.13	2.25	1.89	2.34	3.56	4.52	5.42	5.16	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.6	3.4	3.9	3.4	4.2	6.0	6.0	5.7	3.8	3.1	3.2	3.1	4.1	
EFFLUENT (MG/L)	2.2	2.1	2.6	2.3	3.4	3.9	7.5	4.9	3.5	2.8	2.3	2.3	3.3	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	2.77	2.52	3.69	3.35	4.08	3.93	9.37	6.17	4.09	3.83	3.35	3.19	4.26	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED	1988	1990/12	
EQUIPMENT/MAINTENANCE - EXISTING EQUIPMENT BEING REPAIRED	1988/04	1988/11	
SLUDGE DISPOSAL/REMOVAL - UPGRADING SLUDGE STORAGE FACILITIES	1988	1990/12	

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ST EDMUNDS
PLANT : TOBERMORY LAGOON
WORKS NUMBER : 120001577
TREATMENT : AERATED CELL PLUS LAGOON
: EXFILTRATION LAGOON
:
DESIGN CAPACITY : 0.16 (1000 M3)

REGION : SOUTHWEST
DISTRICT : BRUCE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NO DISC.TO SURFACE WATER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 300

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	NA	NO DIRECT DISCHARGE
SS	NA	NO DIRECT DISCHARGE
TP	NA	NO DIRECT DISCHARGE

NOTE:
BOD - HAS NO CRITERIA
SS - HAS NO CRITERIA
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - OPERATIONAL PROCEDURES BEING UPGRADED	1999/05		1999

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ST MARYS
PLANT : ST MARYS WPCP
WORKS NUMBER : 110001275
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 3.63 (1000 M3)

REGION : SOUTHWEST
DISTRICT : PERTH
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : THAMES RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 4,508

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	4.50	4.31	5.16	5.09	4.44	4.56	4.21	4.22	4.43	4.66	5.19	5.05	4.65	
BOD5														
INFLUENT (MG/L)	164.0	153.0	148.0	184.0	230.0	210.0	471.0	185.0	246.0	244.0	316.0	198.0	229.1	
EFFLUENT (MG/L)	10.0	7.8	14.0	7.5	4.8	3.9	3.8	4.6	5.5	3.9	12.1	16.4	7.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	45.00	33.61	72.24	38.17	21.31	17.78	15.99	19.41	24.36	18.17	62.79	82.82	36.74	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	114.0	161.0	109.0	104.0	126.0	265.0	445.0	185.0	328.0	292.0	280.0	601.0	250.8	
EFFLUENT (MG/L)	6.7	4.0	23.1	3.3	5.3	5.2	3.9	4.8	8.1	3.7	8.5	9.2	7.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	30.15	17.24	119.19	16.79	23.53	23.71	16.41	20.25	35.88	17.24	44.11	46.46	33.48	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.2	5.5	5.0	5.1	6.3	5.8	9.4	4.4	6.1	7.2	8.7	8.9	6.5	
EFFLUENT (MG/L)	1.1*	0.3	0.5	0.3	0.3	0.6	0.3	0.4	0.5	0.5	0.4	0.8	0.5	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	4.95	1.29	2.58	1.52	1.33	2.73	1.26	1.68	2.21	2.33	2.07	4.04	2.33	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - CONSTRUCTION INITIATED	1988	1990/07	1988/02

1988 CERTIFICATE OF APPROVAL ASSESSMENT

MUNICIPALITY : ST THOMAS
PLANT : ST THOMAS WPCP
WORKS NUMBER : 120001112
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 40.91 (1000 M3)

REGION : SOUTHWEST
DISTRICT : ELGIN
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : KETTLE CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 28,218

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	15.84	15.68	ND	17.94	17.16	15.91	14.52	17.01	19.09	20.24	23.03	16.86	17.57	
BOD5														
INFLUENT (MG/L)	108.0	89.0	105.0	64.0	87.0	155.0	76.0	79.0	95.0	106.0	50.0	98.0	92.7	
EFFLUENT (MG/L)	3.1	4.5	10.7	9.5	15.1	5.6	6.3	3.3	9.6	13.5	3.4	5.1	7.5	
CONCENTRATION LIMIT (MG/L)													15.0	
LOADING (KG/D)	49.10	70.56	ND	170.43	259.11	89.09	91.47	56.13	183.26	273.24	78.30	85.98	131.78	
LOADING LIMIT (KG/D)														
SUSPENDED SOLIDS														
INFLUENT (MG/L)	156.0	353.0	163.0	92.0	92.0	614.0	156.0	398.0	174.0	112.0	77.0	139.0	210.5	
EFFLUENT (MG/L)	2.8	3.0	2.5	6.1	6.0	8.3	9.1	5.7	10.2	18.6	5.8	2.4	6.7	
CONCENTRATION LIMIT (MG/L)													20.0	
LOADING (KG/D)	44.35	47.04	ND	109.43	102.96	132.05	132.13	96.95	194.71	376.46	133.57	40.46	117.72	
LOADING LIMIT (KG/D)														
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.5	14.0	5.5	3.9	5.6	22.0	6.2	9.8	5.4	5.9	3.8	6.4	7.9	
EFFLUENT (MG/L)	0.7	0.7	0.8	0.7	0.9	1.1	1.0	0.9	0.9	1.0	0.9	0.7	0.9	
CONCENTRATION LIMIT (MG/L)													1.0	
LOADING (KG/D)	11.08	10.97	ND	12.55	15.44	17.50	14.52	15.30	17.18	20.24	20.72	11.80	15.81	
LOADING LIMIT (KG/D)														

SUMMARY

PARM	CRITERIA	LOADING	COMPLIES WITH CONC	COMPLIES WITH LOADING
BOD	15.0 MG/L	NA	YES	NA
SS	20.0 MG/L	NA	YES	NA
TP	1.0 MG/L	NA	YES	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED ANNUALLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ST THOMAS
PLANT : ST THOMAS WPCP
WORKS NUMBER : 120001112
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 40.91 (1000 M3)

REGION : SOUTHWEST
DISTRICT : ELGIN
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : KETTLE CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 28,218

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	15.84	15.68	ND	17.94	17.16	15.91	14.52	17.01	19.09	20.24	23.03	16.86	17.57	
BOD5														
INFLUENT (MG/L)	108.0	89.0	105.0	64.0	87.0	155.0	76.0	79.0	95.0	106.0	50.0	98.0	92.7	
EFFLUENT (MG/L)	3.1	4.5	10.7	9.5	15.1	5.6	6.3	3.3	9.6	13.5	3.4	5.1	7.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	49.10	70.56	ND	170.43	259.11	89.09	91.47	56.13	183.26	273.24	78.30	85.98	131.78	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	156.0	353.0	163.0	92.0	92.0	614.0	156.0	398.0	174.0	112.0	77.0	139.0	210.5	
EFFLUENT (MG/L)	2.8	3.0	2.5	6.1	6.0	8.3	9.1	5.7	10.2	18.6	5.8	2.4	6.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	44.35	47.04	ND	109.43	102.96	132.05	132.13	96.95	194.71	376.46	133.57	40.46	117.72	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.5	14.0	5.5	3.9	5.6	22.0	6.2	9.8	5.4	5.9	3.8	6.4	7.9	
EFFLUENT (MG/L)	0.7	0.7	0.8	0.7	0.9	1.1*	1.0	0.9	0.9	1.0	0.9	0.7	0.9	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	11.08	10.97	ND	12.55	15.44	17.50	14.52	15.30	17.18	20.24	20.72	11.80	15.81	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : STEPHEN
PLANT : GRAND BEND LAGOON
WORKS NUMBER : 110002452
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 1.89 (1000 M3)

REGION : SOUTHWEST
DISTRICT : HURON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : AUSABLE RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,270

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.68	0.67	0.83	0.87	1.14	1.26	1.69	1.52	1.05	0.99	0.92	0.76	1.03	
LAGOON DISCHARGE	ND	ND	ND	50.43	ND	ND	ND	ND	ND	78.88	ND	ND	64.66	
BOD5														
INFLUENT (MG/L)	187.0	147.0	80.0	74.0	319.0	220.0	131.0	191.0	90.0	89.0	54.0	111.0	141.1	
EFFLUENT (MG/L)	ND	ND	ND	9.2	ND	ND	ND	ND	ND	8.5	ND	ND	8.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	8.00	ND	ND	ND	ND	ND	8.41	ND	ND	9.17	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	163.0	175.0	64.0	118.0	456.0	247.0	177.0	221.0	94.0	58.0	61.0	103.0	161.4	
EFFLUENT (MG/L)	ND	ND	ND	42.5	ND	ND	ND	ND	ND	58.4	ND	ND	50.5*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	36.97	ND	ND	ND	ND	ND	57.81	ND	ND	52.02	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.8	6.8	4.4	4.5	7.5	7.3	7.2	6.5	3.9	4.7	5.3	4.4	5.5	
EFFLUENT (MG/L)	ND	ND	ND	1.7*	ND	ND	ND	ND	ND	0.7	ND	ND	1.2	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	1.47	ND	ND	ND	ND	ND	0.69	ND	ND	1.24	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	NO
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED			1989/01
FACILTY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED	1988		1989/01
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE	1988		1989/01

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : STEPHEN
PLANT : HURON PARK WPCP
WORKS NUMBER : 110003488
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
:
:
DESIGN CAPACITY : 1.81 (1000 M3)

REGION : SOUTHWEST
DISTRICT : HURON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : AUSABLE RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,400

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.28	1.33	1.88	1.46	1.09	0.85	0.79	0.78	0.77	1.24	1.42	1.23	1.18	
BOD5														
INFLUENT (MG/L)	31.0	200.0	79.0	106.0	116.0	89.0	81.0	63.0	105.0	57.0	74.0	50.0	87.6	
EFFLUENT (MG/L)	8.7	3.1	6.3	4.5	3.3	1.7	10.0	4.3	4.8	6.8	8.5	2.4	5.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	11.13	4.12	11.84	6.57	3.59	1.44	7.90	3.35	3.69	8.43	12.07	2.95	6.37	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	57.0	96.0	61.0	81.0	58.0	93.0	73.0	64.0	87.0	50.0	96.0	45.0	71.8	
EFFLUENT (MG/L)	7.6	3.3	5.9	4.0	2.3	3.2	8.6	5.4	5.6	4.6	1.8	4.7	4.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	9.72	4.38	11.09	5.84	2.50	2.72	6.79	4.21	4.31	5.70	2.55	5.78	5.66	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.5	2.9	2.5	2.9	3.2	3.5	2.8	3.5	4.2	1.5	2.2	2.2	2.8	
EFFLUENT (MG/L)	1.6	1.3	1.2	1.4	1.8	2.3	2.4	2.4	2.9	1.0	1.7	1.9	1.8	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	2.04	1.72	2.25	2.04	1.96	1.95	1.89	1.87	2.23	1.24	2.41	2.33	2.12	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW			1988

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : STRATFORD
PLANT : STRATFORD WPCP
WORKS NUMBER : 110000702
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
DESIGN CAPACITY : 27.27 (1000 M3)

REGION : SOUTHWEST
DISTRICT : PERTH
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : AVON RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 26,017

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	19.85	20.96	29.22	25.03	21.32	17.70	18.04	17.27	18.77	24.75	29.36	22.49	22.06	
BOD5														
INFLUENT (MG/L)	134.0	142.0	80.0	71.0	112.0	90.0	88.0	112.0	95.0	69.0	35.0	85.0	92.8	
EFFLUENT (MG/L)	14.1	4.0	4.8	4.9	5.3	12.9	8.7	13.1	18.6	8.5	9.8	7.5	9.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	279.88	83.84	140.25	122.64	112.99	228.33	156.94	226.23	349.12	210.37	287.72	168.67	207.36	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	121.0	174.0	113.0	48.0	100.0	122.0	108.0	108.0	139.0	77.0	39.0	108.0	104.8	
EFFLUENT (MG/L)	1.5	0.7	0.7	0.7	1.8	7.3	1.5	2.4	0.9	1.8	1.5	1.3	1.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	29.77	14.67	20.45	17.52	38.37	129.21	27.06	41.44	16.89	44.55	44.04	29.23	39.71	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.2	5.6	3.8	3.3	2.6	5.6	5.3	3.9	5.6	4.9	2.6	5.0	4.5	
EFFLUENT (MG/L)	0.3	0.5	0.5	0.3	0.2	0.2	0.1	0.3	0.1	0.1	0.1	0.5	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	5.95	10.48	14.61	7.50	4.26	3.54	1.80	5.18	1.87	2.47	2.93	11.24	6.62	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING IMPLEMENTED IN PHASES	1988		

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : STRATHROY
PLANT : STRATHROY LAGOON
WORKS NUMBER : 1200000827
TREATMENT : AERATED LAGOON
: CONTINUOUS DISCHARGE
: PHOSPHORUS REMOVAL-CONTINUOUS
DESIGN CAPACITY : 5.18 (1000 M3)

REGION : SOUTHWEST
DISTRICT : MIDDLESEX
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : SYDENHAM RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 9,051

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.07	4.06	3.68	3.06	3.60	3.41	3.05	4.37	4.67	3.96	5.06	4.48	3.87	
LAGOON DISCHARGE	148.95	166.53	166.17	91.87	111.45	ND	ND	ND	ND	ND	156.78	138.73	140.07	
BOD5														
INFLUENT (MG/L)	104.0	118.0	102.0	106.0	94.0	125.0	95.0	117.0	933.0	125.0	235.0	89.0	186.9	
EFFLUENT (MG/L)	2.9	3.1	5.5	1.9	3.5	ND	ND	ND	ND	ND	6.0	8.4	4.5	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	8.90	12.58	20.24	5.81	12.60	ND	ND	ND	ND	ND	30.36	37.63	17.42	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	165.0	204.0	187.0	151.0	172.0	212.0	184.0	210.0	2,335.0	217.0	393.0	153.0	381.9	
EFFLUENT (MG/L)	0.7	1.0	6.1	0.8	2.5	ND	ND	ND	ND	ND	8.9	20.3	5.8	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	2.14	4.06	22.44	2.44	9.00	ND	ND	ND	ND	ND	45.03	90.94	22.45	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.0	6.8	5.9	6.0	7.2	7.0	6.1	5.7	25.9	5.9	7.8	5.0	7.9	
EFFLUENT (MG/L)	0.4	0.5	0.3	0.2	0.4	ND	ND	ND	ND	ND	0.3	0.4	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	1.22	2.03	1.10	0.61	1.44	ND	ND	ND	ND	ND	1.51	1.79	1.55	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	INSUFFICIENT DATA
SS	40.0 MG/L	INSUFFICIENT DATA
TP	1.0 MG/L	INSUFFICIENT DATA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : THAMESVILLE
PLANT : THAMESVILLE WPCP
WORKS NUMBER : 110002470
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 0.81 (1000 M3)

REGION : SOUTHWEST
DISTRICT : KENT
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : THAMES RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 985

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.25	0.25	0.24	0.24	0.25	0.23	0.22	0.23	0.24	0.23	0.22	0.21	0.23	
BOD5														
INFLUENT (MG/L)	130.0	150.0	85.0	233.0	228.0	95.0	237.0	206.0	132.0	114.0	138.0	202.0	162.5	
EFFLUENT (MG/L)	6.5	8.1	12.4	15.0	5.7	11.3	3.0	7.4	6.1	2.4	9.5	5.4	7.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.62	2.02	2.97	3.60	1.42	2.59	0.66	1.70	1.46	0.55	2.09	1.13	1.77	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	73.0	104.0	74.0	237.0	199.0	122.0	175.0	196.0	138.0	80.0	122.0	161.0	140.1	
EFFLUENT (MG/L)	5.6	13.3	16.6	12.9	10.9	16.7	7.2	8.2	7.5	8.6	13.2	13.4	11.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.40	3.32	3.98	3.09	2.72	3.84	1.58	1.88	1.80	1.97	2.90	2.81	2.58	
TOTAL PHOSPHORUS														
INFLUENT (MG/L)	6.3	6.8	6.1	10.8	11.1	7.6	10.8	9.3	8.4	5.7	8.0	10.2	8.4	
EFFLUENT (MG/L)	0.5	0.5	0.5	0.4	0.2	0.4	0.4	0.3	0.3	0.4	0.5	0.4	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.12	0.12	0.12	0.09	0.05	0.09	0.08	0.06	0.07	0.09	0.11	0.08	0.09	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - OPERATIONAL PROCEDURES BEING UPGRADED	1988	1990/12	
SLUDGE DISPOSAL/REMOVAL - UPGRADING SLUDGE STORAGE FACILITIES		1990/12	

1980 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : THEDFORD
PLANT : THEDFORD LAGOON
WORKS NUMBER : 110002336
TREATMENT : CONVENTIONAL LAGOON ANNUAL
:
:
DESIGN CAPACITY : 0.48 (1000 M3)

REGION : SOUTHWEST
DISTRICT : LAMBTON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : DECKER CREEK
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 661

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.18	0.20	0.25	0.20	0.15	0.18	0.29	0.25	0.21	0.28	0.28	0.24	0.23	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	159.0	107.0	102.0	109.0	119.0	186.0	135.0	145.0	95.0	147.0	146.0	119.0	130.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	224.0	77.0	173.0	156.0	136.0	230.0	208.0	502.0	150.0	118.0	210.0	183.0	197.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.3	7.0	6.6	8.0	7.5	1.9	9.5	7.6	7.2	7.9	8.9	7.0	7.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	NO DISCHARGE
SS	40.0 MG/L	NO DISCHARGE
TP	NA	NO DISCHARGE

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED		
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE		

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : THORNBURY
PLANT : THORNBURY LAGOON
WORKS NUMBER : 110001890
TREATMENT : AERATED CELL PLUS LAGOON
: SUMMER STORAGE
:
DESIGN CAPACITY : 1.72 (1000 M3)

REGION : SOUTHWEST
DISTRICT : GREY
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BEAVER RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,714

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.47	1.51	1.57	1.46	1.08	0.96	1.00	1.28	1.24	1.65	1.80	1.70	1.39	
LAGOON DISCHARGE	45.69	43.72	48.80	43.76	10.53	ND	ND	ND	ND	51.16	54.02	52.69	43.80	
BOD5														
INFLUENT (MG/L)	21.0	38.0	43.0	104.0	141.0	45.0	ND	46.0	25.0	106.0	23.0	73.0	60.5	
EFFLUENT (MG/L)	3.4	4.0	16.7	13.8	10.4	ND	ND	ND	ND	2.4	2.0	2.1	6.9	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	4.99	6.04	26.21	20.14	11.23	ND	ND	ND	ND	3.96	3.60	3.57	9.59	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	33.0	27.0	54.0	100.0	70.0	147.0	ND	130.0	47.0	157.0	89.0	80.0	84.9	
EFFLUENT (MG/L)	1.7	1.5	30.6	34.5	16.9	ND	ND	ND	ND	1.8	2.5	3.5	11.6	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	2.49	2.26	48.04	50.37	18.25	ND	ND	ND	ND	2.97	4.50	5.95	16.12	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	1.4	2.2	2.5	2.0	3.7	3.6	ND	3.8	2.3	3.9	1.4	2.6	2.7	
EFFLUENT (MG/L)	1.2	1.2	1.4	1.2	1.4	ND	ND	ND	ND	3.0	2.4	1.6	1.7	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	1.76	1.81	2.19	1.75	1.51	ND	ND	ND	ND	4.95	4.32	2.72	2.36	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE	1988	1990/12	

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : TILBURY
PLANT : TILBURY LAGOON
WORKS NUMBER : 120000916
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 2.53 (1000 M3)

REGION : SOUTHWEST
DISTRICT : KENT
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : TILBURY CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 4,200

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.67	2.45	3.45	2.26	4.05	3.36	2.88	2.52	2.79	2.93	3.65	4.31	3.11	
LAGOON DISCHARGE	82.79	71.00	131.00	68.00	80.00	ND	ND	ND	ND	ND	ND	67.00	83.30	
BOD5														
INFLUENT (MG/L)	72.5	67.5	98.0	107.0	ND	ND	ND	ND	ND	ND	ND	ND	86.3	
EFFLUENT (MG/L)	5.3	6.7	6.8	16.9	ND	ND	ND	ND	ND	ND	ND	ND	8.9	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	14.15	16.41	23.46	38.19	ND	ND	ND	ND	ND	ND	ND	ND	27.68	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	92.7	95.9	117.7	232.0	ND	ND	ND	ND	ND	ND	ND	ND	134.6	
EFFLUENT (MG/L)	10.0	11.5	9.8	40.6	ND	ND	ND	ND	ND	ND	ND	ND	16.0	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	26.70	28.17	33.81	91.75	ND	ND	ND	ND	ND	ND	ND	ND	55.98	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.9	3.7	6.3	6.5	ND	ND	ND	ND	ND	ND	ND	ND	5.6	
EFFLUENT (MG/L)	0.7	1.0	1.1*	1.2*	ND	ND	ND	ND	ND	ND	ND	ND	1.0	2
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	1.86	2.45	3.79	2.71	ND	ND	ND	ND	ND	ND	ND	ND	3.11	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - OPERATIONAL PROCEDURES BEING UPGRADED	1989/01/01	1989/06/01	1989/01/01

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : TILBURY NORTH
PLANT : STONEY POINT P.V. LAGOON
WORKS NUMBER : 110002345
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 0.95 (1000 M3)

REGION : SOUTHWEST
DISTRICT : ESSEX
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : LITTLE CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,305

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.81	0.89	0.80	0.77	0.60	0.56	0.50	0.50	0.48	0.52	0.76	0.59	0.65	
LAGOON DISCHARGE	ND	ND	ND	ND	185.80	ND	ND	ND	ND	ND	ND	ND	185.80	
BOD5														
INFLUENT (MG/L)	24.0	30.0	24.0	27.0	58.0	47.0	47.0	107.0	62.0	36.0	67.0	65.0	49.5	
EFFLUENT (MG/L)	ND	ND	ND	ND	9.2	ND	ND	ND	ND	ND	ND	ND	9.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	5.52	ND	ND	ND	ND	ND	ND	ND	5.98	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	23.0	39.0	14.0	21.0	42.0	64.0	44.0	96.0	80.0	11.0	81.0	105.0	51.7	
EFFLUENT (MG/L)	ND	ND	ND	ND	26.4	ND	ND	ND	ND	ND	ND	ND	26.4*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	15.84	ND	ND	ND	ND	ND	ND	ND	17.16	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	1.3	2.0	1.2	2.6	3.5	4.6	4.0	5.5	4.3	2.3	4.9	4.2	3.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	0.2	ND	ND	ND	ND	ND	ND	ND	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	0.12	ND	ND	ND	ND	ND	ND	ND	0.13	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	NO
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED			
FACILTY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED			
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE			

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : TILBURY WEST
PLANT : COMBER LAGOON
WORKS NUMBER : 3100001676
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 0.40 (1000 M3)

REGION : SOUTHWEST
DISTRICT : ESSEX
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : GOVN'T DR NO.1 TO BIG CK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 780

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.29	0.34	0.33	0.29	0.23	0.21	0.20	0.22	0.25	0.27	0.37	0.31	0.28	
LAGOON DISCHARGE	ND	ND	ND	ND	67.73	ND	ND	ND	ND	ND	ND	ND	67.73	
BOD5														
INFLUENT (MG/L)	126.0	134.0	81.0	103.0	96.0	142.0	127.0	33.0	112.0	166.0	ND	151.0	115.5	
EFFLUENT (MG/L)	ND	ND	ND	ND	6.0	ND	ND	ND	ND	ND	ND	ND	6.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	1.38	ND	ND	ND	ND	ND	ND	ND	1.68	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	161.0	107.0	75.0	74.0	102.0	160.0	127.0	25.0	152.0	74.0	ND	225.0	116.5	
EFFLUENT (MG/L)	ND	ND	ND	ND	4.7	ND	ND	ND	ND	ND	ND	ND	4.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	1.08	ND	ND	ND	ND	ND	ND	ND	1.32	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.6	6.9	4.4	6.2	6.5	7.6	8.0	2.9	6.9	8.9	ND	8.8	6.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	0.2	ND	ND	ND	ND	ND	ND	ND	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	0.04	ND	ND	ND	ND	ND	ND	ND	0.06	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

START DATE	END DATE	ANTICIPATED COMPLIANCE

OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : TILLSONBURG
PLANT : TILLSONBURG WPCP
WORKS NUMBER : 110000757
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 5.91 (1000 M3)

REGION : SOUTHWEST
DISTRICT : OXFORD
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BIG OTTER CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 9,519

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	4.33	4.47	4.87	5.08	4.48	4.16	4.26	4.51	4.30	4.40	4.73	4.44	4.50	
BOD5														
INFLUENT (MG/L)	243.0	156.0	136.0	127.0	140.0	87.0	125.0	106.0	126.0	111.0	122.0	171.0	137.5	
EFFLUENT (MG/L)	4.2	4.9	6.6	3.2	3.7	1.3	1.7	2.4	1.9	1.1	3.1	1.9	3.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	18.18	21.90	32.14	16.25	16.57	5.40	7.24	10.82	8.17	4.84	14.66	8.43	13.50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	239.0	149.0	164.0	143.0	167.0	178.0	171.0	203.0	165.0	178.0	158.0	214.0	177.4	
EFFLUENT (MG/L)	7.2	7.5	7.8	6.6	7.4	5.8	5.1	4.3	4.2	5.2	5.6	7.6	6.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	31.17	33.52	37.98	33.52	33.15	24.12	21.72	19.39	18.06	22.88	26.48	33.74	27.90	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.5	8.5	8.0	7.0	6.9	6.5	7.5	6.7	5.7	6.2	6.5	8.2	7.1	
EFFLUENT (MG/L)	0.3	0.4	0.5	0.4	0.5	0.4	0.4	0.5	0.4	0.3	0.5	0.5	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	1.29	1.78	2.43	2.03	2.24	1.66	1.70	2.25	1.72	1.32	2.36	2.22	1.80	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : TUCKERSMITH
PLANT : VAN ASTRA WPCP
WORKS NUMBER : 110003013
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 1.40 (1000 M3)

REGION : SOUTHWEST
DISTRICT : HURON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : MUN DRAIN TO BAYFIELD R.
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 650

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.67	0.74	1.49	1.34	[illegible]	0.37	0.32	0.33	0.46	1.10	1.16	1.04	0.82	
BOD5														
INFLUENT (MG/L)	124.0	38.0	44.0	50.0	[illegible]	85.0	129.0	77.0	71.0	64.0	40.0	19.0	80.3	
EFFLUENT (MG/L)	11.0	4.5	9.1	3.8	4.8	3.0	1.5	4.3	1.7	4.9	2.8	2.6	4.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	7.37	3.33	13.55	5.09	3.88	1.11	0.48	1.41	0.78	5.39	3.24	2.70	3.69	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	188.0	59.0	67.0	47.0	170.0	87.0	268.0	101.0	45.0	100.0	40.0	42.0	101.2	
EFFLUENT (MG/L)	20.4	33.0	15.5	4.8	9.9	22.3	6.2	12.0	4.5	10.1	9.7	2.9	12.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	13.66	24.42	23.09	6.43	8.01	8.25	1.98	3.96	2.07	11.11	11.25	3.01	10.33	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.4	4.6	2.8	2.5	5.0	5.2	6.7	4.6	3.0	2.4	1.5	1.2	3.7	
EFFLUENT (MG/L)	0.8	1.0	0.4	0.1	0.2	0.4	0.2	0.3	0.3	0.5	0.5	0.2	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.53	0.74	0.59	0.13	0.16	0.14	0.06	0.09	0.13	0.55	0.58	0.20	0.33	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW	1988		

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WALKERTON
PLANT : WALKERTON WPCP
WORKS NUMBER : 120001489
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 7.54 (1000 M3)

REGION : SOUTHWEST
DISTRICT : BRUCE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : SAUGEEN RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 4,591

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	5.48	5.81	6.85	6.28	4.94	4.32	2.73	2.71	3.48	4.66	5.18	4.39	4.74	
BOD5														
INFLUENT (MG/L)	219.0	212.0	195.0	148.0	241.0	354.0	128.0	49.0	209.0	230.0	282.0	180.0	203.9	
EFFLUENT (MG/L)	6.9	9.9	10.4	14.0	12.5	12.0	1.5	5.0	10.2	7.3	11.3	11.0	9.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	37.81	57.51	71.24	87.92	61.75	51.84	4.09	13.55	35.49	34.01	58.53	48.29	44.08	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	163.0	186.0	139.0	99.0	129.0	316.0	68.0	87.0	187.0	244.0	209.0	165.0	166.0	
EFFLUENT (MG/L)	4.7	9.6	5.2	10.2	4.8	10.6	3.6	6.4	6.5	7.2	7.0	10.9	7.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	25.75	55.77	35.62	64.05	23.71	45.79	9.82	17.34	22.62	33.55	36.26	47.85	34.13	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.0	5.3	5.2	4.5	5.8	6.9	4.4	4.8	5.0	6.2	7.0	6.4	5.6	
EFFLUENT (MG/L)	0.8	0.8	0.9	0.9	0.5	1.0	0.3	0.8	0.9	1.0	1.0	0.8	0.8	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	4.38	4.64	6.16	5.65	2.47	4.32	0.81	2.16	3.13	4.66	5.18	3.51	3.79	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
SLUDGE DISPOSAL/REMOVAL - UPGRADING SLUDGE STORAGE FACILITIES	1989/07	1989/07	1989

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WALLACEBURG
PLANT : WALLACEBURG WPCP
WORKS NUMBER : 110000784
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 6.81 (1000 M3)

REGION : SOUTHWEST
DISTRICT : KENT
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : SYDENHAM RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 9,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	6.84	7.11	7.54	7.27	6.54	6.39	5.81	5.27	4.46	4.67	6.32	5.26	6.12	
BODS														
INFLUENT (MG/L)	123.0	100.0	102.0	71.0	108.0	133.0	86.0	98.0	121.0	124.0	94.0	98.0	104.8	
EFFLUENT (MG/L)	12.0	9.0	13.0	8.0	8.0	14.3	8.8	6.6	4.0	6.8	6.0	7.7	8.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	82.08	63.99	98.02	58.16	52.32	91.37	51.12	34.78	17.84	31.75	37.92	40.50	53.24	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	168.0	192.0	183.0	195.0	244.0	266.0	238.0	216.0	255.0	241.0	242.0	204.0	220.3	
EFFLUENT (MG/L)	9.0	11.0	10.0	9.0	9.0	11.0	9.0	6.3	9.3	8.8	7.5	8.6	9.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	61.56	78.21	75.40	65.43	58.86	70.29	52.29	33.20	41.47	41.09	47.40	45.23	55.08	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	9.1	12.1	7.2	5.3	6.8	6.2	6.7	6.0	4.3	4.5	4.1	10.8	6.9	
EFFLUENT (MG/L)	0.9	1.1*	0.6	0.4	0.2	0.3	0.3	0.3	0.4	0.4	0.3	0.9	0.5	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	6.15	7.82	4.52	2.90	1.30	1.91	1.74	1.58	1.78	1.86	1.89	4.73	3.06	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
INFLUENT SEWAGE - ENFORCING SEWER USE BYLAW	1988/02/01	1988/03/01	1988/03/01
FACILTY EXPANSION/UPGRADING - ENVIRONMENTAL ASSESSMENT BEING CONDUCTED	1988/01/01	1991/12/01	

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WATFORD
PLANT : WATFORD LAGOON
WORKS NUMBER : 110001809
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 1.05 (1000 M3)

REGION : SOUTHWEST
DISTRICT : LAMBTON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BEAR CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,467

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.47	0.50	0.57	0.51	0.47	0.43	0.44	0.40	0.47	0.54	0.61	0.53	0.50	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	125.0	142.0	103.0	176.0	130.0	156.0	135.0	160.0	109.0	133.0	69.0	100.0	128.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.7	ND	3.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.25	ND	1.85	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	90.0	137.0	125.0	205.0	69.0	66.0	113.0	102.0	45.0	124.0	52.0	47.0	97.9	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23.8	ND	23.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.51	ND	11.90	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.1	6.2	5.9	7.6	6.7	8.1	7.0	7.2	5.6	7.5	5.9	6.5	6.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0	ND	1.0	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.61	ND	0.50	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

START DATE	END DATE	ANTICIPATED COMPLIANCE

OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WEST LORNE
PLANT : WEST LORNE LAGOON
WORKS NUMBER : 110001337
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 0.67 (1000 M3)

REGION : SOUTHWEST
DISTRICT : ELGIN
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : ZOLLER DRAIN
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,367

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.55	0.60	0.66	0.59	0.54	0.46	0.41	0.41	0.50	0.84	0.77	0.60	0.58	
LAGOON DISCHARGE	ND	ND	ND	64.85	20.40	ND	ND	ND	ND	60.71	ND	ND	48.65	
BOD5														
INFLUENT (MG/L)	ND	90.0	131.0	96.0	128.0	138.0	187.0	164.0	234.0	257.0	128.0	124.0	152.5	
EFFLUENT (MG/L)	ND	ND	ND	15.8	17.8	ND	ND	ND	ND	4.0	ND	ND	12.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	9.32	9.61	ND	ND	ND	ND	3.36	ND	ND	7.25	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	95.0	144.0	70.0	95.0	83.0	184.0	113.0	174.0	207.0	63.0	131.0	123.5	
EFFLUENT (MG/L)	ND	ND	ND	27.0	15.1	ND	ND	ND	ND	9.1	ND	ND	17.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	15.93	8.15	ND	ND	ND	ND	7.64	ND	ND	9.92	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	5.3	7.7	4.9	7.5	7.8	7.3	7.9	8.3	10.5	5.6	6.2	7.2	
EFFLUENT (MG/L)	ND	ND	ND	0.4	0.5	ND	ND	ND	ND	0.3	ND	ND	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	0.23	0.27	ND	ND	ND	ND	0.25	ND	ND	0.23	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE			1991/12

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WESTMINISTER
PLANT : SOUTHLAND PARK WPCP
WORKS NUMBER : 120000818
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 0.26 (1000 M3)

REGION : SOUTHWEST
DISTRICT : MIDDLESEC
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : DINGMAN CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 385

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.12	0.12	0.11	0.12	0.12	0.11	0.11	0.11	0.10	0.09	0.09	0.10	0.11	
BOD5														
INFLUENT (MG/L)	151.0	119.0	149.0	104.0	91.0	107.0	89.0	102.0	135.0	68.0	131.0	105.0	112.6	
EFFLUENT (MG/L)	3.7	2.0	2.3	2.2	4.5	3.3	1.8	1.4	2.7	1.4	2.3	7.0	2.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.44	0.24	0.25	0.26	0.54	0.36	0.19	0.15	0.27	0.12	0.20	0.70	0.32	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	126.0	100.0	198.0	112.0	53.0	85.0	81.0	134.0	110.0	60.0	163.0	122.0	112.0	
EFFLUENT (MG/L)	1.8	2.9	1.8	0.4	0.9	1.6	0.7	1.8	0.7	1.1	2.3	3.8	1.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.21	0.34	0.19	0.04	0.10	0.17	0.07	0.19	0.07	0.09	0.20	0.38	0.19	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.2	4.3	7.2	5.8	4.4	5.2	4.0	7.1	9.6	4.5	8.6	4.9	5.9	
EFFLUENT (MG/L)	0.4	0.3	0.3	0.3	0.6	0.9	0.6	0.6	0.6	0.6	0.3	0.4	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.04	0.03	0.03	0.03	0.07	0.09	0.06	0.06	0.06	0.05	0.02	0.04	0.06	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WESTMINISTER
PLANT : WESTMINSTER WPCP
WORKS NUMBER : 110000800
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 1.13 (1000 M3)

REGION : SOUTHWEST
DISTRICT : MIDDLESEC
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : DINGMAN CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 6,059

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.65	1.75	1.59	1.37	1.48	1.17	1.21	1.50	2.13	1.67	1.79	1.55	1.57	
BOD5														
INFLUENT (MG/L)	268.0	137.0	121.0	139.0	146.0	156.0	188.0	81.0	221.0	76.0	129.0	152.0	151.2	
EFFLUENT (MG/L)	9.4	5.7	5.4	6.4	2.0	3.3	7.9	4.6	5.4	10.2	8.8	7.1	6.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	15.51	9.97	8.58	8.76	2.96	3.86	9.55	6.90	11.50	17.03	15.75	11.00	10.05	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	243.0	220.0	236.0	198.0	179.0	226.0	128.0	138.0	233.0	76.0	184.0	157.0	184.8	
EFFLUENT (MG/L)	2.0	5.5	1.6	1.7	1.0	2.5	3.6	6.9	4.3	14.5	4.0	3.8	4.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.30	9.62	2.54	2.32	1.48	2.92	4.35	10.35	9.15	24.21	7.16	5.89	6.75	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.7	6.8	5.5	6.0	7.5	2.9	4.1	4.1	7.3	3.4	4.9	7.8	5.7	
EFFLUENT (MG/L)	0.2	0.4	0.3	0.2	0.4	0.4	0.5	0.5	0.4	0.6	0.3	0.4	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.33	0.70	0.47	0.27	0.59	0.46	0.60	0.75	0.85	1.00	0.53	0.62	0.63	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW	1990/01	1990/12	

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WIARTON
PLANT : WIARTON LAGOON
WORKS NUMBER : 110000819
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 2.00 (1000 M3)

REGION : SOUTHWEST
DISTRICT : BRUCE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : COLPOY BAY
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,119

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.18	2.25	2.71	2.61	1.71	1.40	1.43	1.65	1.61	2.13	2.63	2.48	2.07	
LAGOON DISCHARGE	67.52	65.25	83.89	78.22	80.07	14.78	44.34	51.29	48.39	66.01	78.84	76.78	62.95	
BOD5														
INFLUENT (MG/L)	62.0	49.0	129.0	44.0	70.0	78.0	94.0	109.0	74.0	68.0	77.0	64.0	76.5	
EFFLUENT (MG/L)	4.1	6.9	9.0	14.7	5.5	2.4	4.5	5.2	3.4	3.2	3.1	1.6	5.3	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	8.93	15.52	24.39	38.36	9.40	3.36	6.43	8.58	5.47	6.81	8.15	3.96	10.97	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	68.0	46.0	259.0	38.0	44.0	108.0	138.0	65.0	57.0	52.0	79.0	63.0	84.8	
EFFLUENT (MG/L)	3.6	5.0	14.0	48.8	5.7	1.2	6.8	6.5	3.1	2.7	2.7	1.1	8.4	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	7.84	11.25	37.94	127.36	9.74	1.68	9.72	10.72	4.99	5.75	7.10	2.72	17.39	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.9	2.8	6.8	1.8	3.0	4.7	4.5	3.7	3.6	3.9	3.1	3.3	3.8	
EFFLUENT (MG/L)	0.2	0.4	0.7	0.4	0.4	0.6	0.8	0.6	0.9	0.4	0.3	0.4	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.43	0.90	1.89	1.04	0.68	0.84	1.14	0.99	1.44	0.85	0.78	0.99	1.04	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
M - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WINDSOR
PLANT : LITTLE RIVER WPCP
WORKS NUMBER : 120001096
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 36.56 (1000 M3)

REGION : SOUTHWEST
DISTRICT : ESSEX
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LITTLE RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 64,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	29.00	34.60	33.10	32.80	30.00	33.60	30.50	35.10	32.30	32.20	38.20	36.50	33.16	
BOD5														
INFLUENT (MG/L)	134.0	132.0	130.0	140.0	180.0	131.0	114.0	127.0	144.0	151.0	137.0	127.0	137.3	
EFFLUENT (MG/L)	4.0	4.0	5.0	3.0	3.0	5.0	6.0	4.0	5.0	3.0	3.0	9.0	4.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	116.00	138.40	165.50	98.40	90.00	168.00	183.00	140.40	161.50	96.60	114.60	328.50	149.22	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	188.0	188.0	189.0	195.0	240.0	149.0	132.0	218.0	215.0	230.0	243.0	168.0	196.3	
EFFLUENT (MG/L)	10.0	8.0	7.0	6.0	6.0	8.0	9.0	12.0	9.0	6.0	6.0	7.0	7.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	290.00	276.80	231.70	196.80	180.00	268.80	274.50	421.20	290.70	193.20	229.20	255.50	258.65	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.1	5.2	5.4	5.3	7.1	7.4	5.0	5.6	6.1	6.0	5.4	4.5	5.7	
EFFLUENT (MG/L)	0.4	0.3	0.3	0.3	0.4	0.4	0.6	0.5	0.5	0.5	0.2	0.4	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	11.60	10.38	9.93	9.84	12.00	13.44	16.30	17.55	16.15	16.10	7.64	14.60	13.26	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
M - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM - INFILTRATION PROBLEMS BEING CORRECTED			
FACILTY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING IMPLEMENTED IN PHASES	1986/01	1990/01	1989/12

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WINDSOR
PLANT : WESTERLY WPCP
WORKS NUMBER : 120001103
TREATMENT : PRIMARY
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 163.65 (1000 M3)

REGION : SOUTHWEST
DISTRICT : ESSEX
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : DETROIT RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 123,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	111.40	119.00	106.70	117.40	101.50	102.00	106.50	118.10	118.70	121.30	141.60	109.60	114.48	
BOD5														
INFLUENT (MG/L)	84.0	79.0	91.0	69.0	111.0	97.0	101.0	72.0	80.0	106.0	79.0	106.0	89.6	
EFFLUENT (MG/L)	33.0	26.0	34.0	33.0	38.0	40.0	31.0	25.0	31.0	39.0	35.0	40.0	33.8	
LOADING (KG/D)	3676.20	3094.00	3627.80	3874.20	3857.00	4080.00	3301.50	2952.50	3679.70	4730.70	4956.00	4384.00	3869.42	
PERCENT REMOVAL	61	67	63	52	66	59	69	65	61	63	56	62	62	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	108.0	109.0	75.0	148.0	115.0	141.0	103.0	105.0	114.0	97.0	152.0	115.2	
EFFLUENT (MG/L)	19.0	27.0	31.0	28.0	35.0	31.0	22.0	26.0	28.0	27.0	28.0	30.0	27.7	
LOADING (KG/D)	2116.60	3213.00	3307.70	3287.20	3552.50	3162.00	2343.00	3070.60	3323.60	3275.10	3964.80	3288.00	3171.10	
PERCENT REMOVAL		75	72	63	76	73	84	75	73	76	71	80	76	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.4	3.4	3.7	3.3	4.7	4.2	4.1	3.9	3.9	3.8	3.2	4.3	3.8	
EFFLUENT (MG/L)	0.6	0.8	0.8	0.6	0.9	0.7	0.4	0.6	0.5	0.6	0.6	0.9	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	66.84	95.20	85.36	70.44	91.35	71.40	42.60	70.86	59.35	72.78	84.96	98.64	80.14	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	50%	YES
SS	70%	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM - INFILTRATION PROBLEMS BEING CORRECTED	1986	1990	1989

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WINGHAM
PLANT : WINGHAM LAGOON
WORKS NUMBER : 110000828
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS
:
:
DESIGN CAPACITY : 1.60 (1000 M3)

REGION : SOUTHWEST
DISTRICT : HURON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : MAITLAND RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,941

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.82	2.63	3.04	3.24	2.48	1.88	1.89	2.10	2.00	3.14	4.53	3.54	2.77	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	109.82	109.82	
BOD5														
INFLUENT (MG/L)	59.0	78.0	112.0	58.0	305.0	90.0	124.0	85.0	82.0	35.0	75.0	122.0	102.1	
EFFLUENT (MG/L)	7.7	19.5	15.8	14.0	30.0	24.6	27.3	14.9	13.1	14.3	16.6	23.4	18.4	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	21.71	51.28	48.03	45.36	74.40	46.24	51.59	31.29	26.20	44.90	75.19	82.83	50.97	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	74.0	156.0	74.0	44.0	144.0	90.0	140.0	68.0	86.0	36.0	53.0	128.0	91.1	
EFFLUENT (MG/L)	16.8	8.8	12.6	20.7	34.8	21.3	25.8	16.2	23.8	51.7	23.0	26.1	23.5	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	47.37	23.14	38.30	67.06	86.30	40.04	48.76	34.02	47.60	162.33	104.19	92.39	65.10	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.7	3.8	5.4	4.8	6.9	4.6	5.7	4.0	4.0	3.6	3.3	4.5	4.6	
EFFLUENT (MG/L)	2.4	2.2	3.0	2.4	2.0	2.7	3.6	3.2	3.3	1.9	2.4	2.8	2.7	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	6.76	5.78	9.12	7.77	4.96	5.07	6.80	6.72	6.60	5.96	10.87	9.91	7.48	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE	1988	1991/12	

1980 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WOODSTOCK
PLANT : WOODSTOCK WPCP
WORKS NUMBER : 120000685
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 36.36 (1000 M3)

REGION : SOUTHWEST
DISTRICT : OXFORD
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : THAMES RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 27,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	19.14	18.17	21.50	21.23	19.43	18.02	18.38	19.13	18.06	19.29	22.00	19.65	19.50	
BOD5														
INFLUENT (MG/L)	118.0	65.0	35.0	74.0	112.0	117.0	198.0	67.0	91.0	109.0	92.0	95.0	97.8	
EFFLUENT (MG/L)	9.6	8.9	11.3	8.3	14.5	7.3	10.2	7.1	7.9	6.0	7.3	5.5	8.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	183.74	161.71	242.95	176.20	281.73	131.54	187.47	135.82	142.67	115.74	160.60	108.07	169.65	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	381.0	214.0	120.0	162.0	265.0	248.0	329.0	147.0	179.0	319.0	155.0	172.0	224.3	
EFFLUENT (MG/L)	11.1	11.8	15.2	9.8	8.5	10.0	15.2	7.4	8.2	8.4	8.0	6.4	10.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	212.45	214.40	326.80	208.05	165.15	180.20	279.37	141.56	148.09	162.03	176.00	125.76	195.00	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.5	5.1	4.0	4.8	8.8	5.4	7.7	5.8	6.0	6.4	4.7	4.5	5.7	
EFFLUENT (MG/L)	0.9	0.7	1.1*	1.1*	1.0	0.9	0.4	0.8	0.7	0.7	0.6	0.7	0.8	2
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	17.22	12.71	23.65	23.35	19.43	16.21	7.35	15.30	12.64	13.50	13.20	13.75	15.60	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ZURICH
PLANT : ZURICH LAGOON
WORKS NUMBER : 110001444
TREATMENT : CONVENTIONAL LAGOON SEASONAL
:
:
DESIGN CAPACITY : 0.44 (1000 M3)

REGION : SOUTHWEST
DISTRICT : HURON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : MUN DRAIN TO L. HURON
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 900

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.48	0.47	0.59	0.50	0.46	0.44	0.46	0.44	0.43	0.52	0.55	0.50	0.49	
LAGOON DISCHARGE	ND	ND	ND	60.64	ND	ND	ND	ND	ND	16.74	5.58	ND	27.65	
BOD5														
INFLUENT (MG/L)	86.0	88.0	143.0	91.0	132.0	64.0	ND	113.0	45.0	132.0	92.0	148.0	103.1	
EFFLUENT (MG/L)	ND	ND	ND	12.1	ND	ND	ND	ND	ND	4.1	5.8	ND	7.3	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	6.05	ND	ND	ND	ND	ND	2.13	3.19	ND	3.58	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	119.0	94.0	190.0	145.0	127.0	132.0	ND	116.0	78.0	199.0	127.0	374.0	154.6	
EFFLUENT (MG/L)	ND	ND	ND	20.8	ND	ND	ND	ND	ND	15.6	13.4	ND	16.6	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	10.40	ND	ND	ND	ND	ND	8.11	7.37	ND	8.13	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.1	6.1	13.6	8.1	5.0	4.4	ND	7.4	2.5	11.9	6.8	8.2	7.2	
EFFLUENT (MG/L)	ND	ND	ND	0.3	ND	ND	ND	ND	ND	0.7	0.8	ND	0.6	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	0.15	ND	ND	ND	ND	ND	0.36	0.44	ND	0.29	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM - INFILTRATION PROBLEMS BEING CORRECTED	1988	1989/12	
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED			
FACILTY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED	1988	1989/12	
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE			

Ministry of the Environment
Ontario

West Central Region

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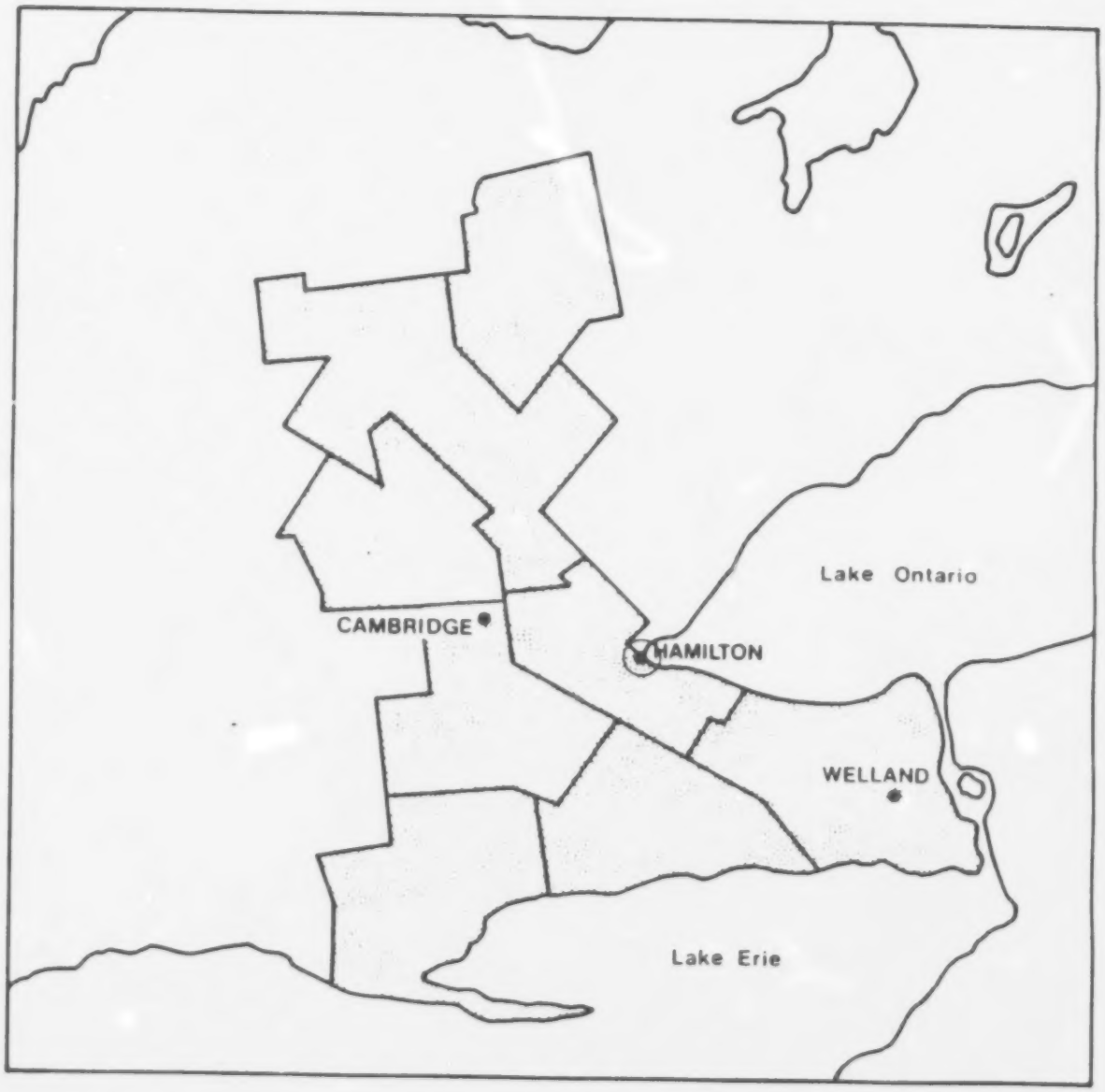

Ministry of the Environment
Ontario

West Central Region

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REGIONAL OFFICE

Hamilton
119 King St. West
P.O. Box 2112
L8N 3Z9
(416) 521-7640

DISTRICT OFFICES

Cambridge
400 Clyde Road
P.O. Box 219
N1R 5T8
(519) 653-1511

Haldimand-Norfolk/Brant
119 King St. West
P.O. Box 2112
L8N 3Z9
(416) 521-7732

Hamilton-Wentworth
119 King St. West
P.O. Box 2112
L8N 3Z9
(416) 521-7732

Welland
637 - 641 Niagara St. West
L3C 1L9
(416) 384-9896

WEST CENTRAL SUMMARY - 1988

TREATMENT TYPE	NUMBER			DESIGN CAPACITY (1000M3)		
	MIN	MUN	TOT	MINISTRY	MUNICIPAL	TOTAL
CONVENTIONAL LAGOON ANNUAL	1	0	1	4.09	0.00	4.09
PRIMARY	0	1	1	0.00	16.36	16.36
CONVENTIONAL ACTIVATED SLUDGE	13	11	24	361.22	670.71	1,031.94
EXTENDED AERATION	6	2	8	11.71	6.95	18.66
HIGH RATE	1	0	1	9.31	0.00	9.31
OXIDATION DITCH	4	0	4	4.51	0.00	4.51
COMMUNAL SEPTIC TANK	0	1	1	0.00	0.22	0.22
AERATED LAGOON	1	0	1	0.99	0.00	0.99
CONVENTIONAL LAGOON CONTINUOUS	0	1	1	0.00	2.29	2.29
CONVENTIONAL LAGOON SEASONAL	5	3	8	3.71	2.36	6.08
AERATED CELL PLUS LAGOON	2	2	4	4.86	4.97	9.84
CONVENTIONAL LAGOON ANNUAL	2	0	2	0.65	0.00	0.65
ROTATING BIOLOGICAL CONTACTOR	0	1	1	0.00	58.18	58.18
TOTALS	35	22	57	401.08	762.08	1,163.17

1000M3/D: THOUSANDS OF CUBIC METERS PER DAY
ADF : AVERAGE DAILY FLOW

WEST CENTRAL SUMMARY - 1988

TREATMENT TYPE	NUMBER			ANNUAL ADF (1000M3)		
	MIN	MUN	TOT	MINISTRY	MUNICIPAL	TOTAL
CONVENTIONAL LAGOON ANNUAL	1	0	1	3.17	0.00	3.17
PRIMARY	0	1	1	0.00	9.53	9.53
CONVENTIONAL ACTIVATED SLUDGE	13	11	24	244.84	497.71	742.55
EXTENDED AERATION	6	2	8	5.75	5.02	10.77
HIGH RATE	1	0	1	5.24	0.00	5.24
OXIDATION DITCH	4	0	4	3.06	0.00	3.06
COMMUNAL SEPTIC TANK	0	1	1	0.00	0.00	0.00
AERATED LAGOON	1	0	1	1.42	0.00	1.42
CONVENTIONAL LAGOON CONTINUOUS	0	1	1	0.00	0.58	0.58
CONVENTIONAL LAGOON SEASONAL	5	3	8	2.45	0.92	3.37
AERATED CELL PLUS LAGOON	2	2	4	2.75	4.52	7.27
CONVENTIONAL LAGOON ANNUAL	2	0	2	0.41	0.00	0.41
ROTATING BIOLOGICAL CONTACTOR	0	1	1	0.00	58.50	58.50
TOTALS	35	22	57	269.09	576.78	845.87

1000M3/D: THOUSANDS OF CUBIC METERS PER DAY
ADF : AVERAGE DAILY FLOW

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ARTHUR
PLANT : ARTHUR LAGOON
WORKS NUMBER : 1100J0882
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 0.98 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : WELLINGTON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : CONESTOGA RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,736

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.02	1.06	1.35	1.38	1.12	0.96	0.80	0.90	0.94	1.13	1.45	1.05	1.10	
LAGOON DISCHARGE	ND	ND	16.26	150.70	29.10	ND	ND	ND	ND	4.76	150.19	ND	70.20	
BOD5														
INFLUENT (MG/L)	155.0	285.0	73.0	247.0	81.0	190.0	ND	ND	127.0	130.0	50.0	76.0	141.4	
EFFLUENT (MG/L)	ND	ND	31.8	19.4	9.2	ND	ND	ND	ND	4.9	16.7	ND	16.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	42.93	26.77	10.30	ND	ND	ND	ND	5.53	24.21	ND	18.04	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	149.0	171.0	81.0	105.0	107.0	136.0	ND	ND	121.0	68.0	ND	68.0	111.8	
EFFLUENT (MG/L)	ND	ND	15.9	19.8	12.5	ND	ND	ND	ND	15.9	46.9	ND	22.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	21.46	27.32	14.00	ND	ND	ND	ND	17.96	68.00	ND	24.42	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.2	5.1	3.1	4.3	3.9	9.4	ND	ND	5.0	0.5	5.0	4.0	4.4	
EFFLUENT (MG/L)	ND	ND	2.5*	0.4	0.3	ND	ND	ND	ND	0.5	1.0	ND	0.9	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	3.37	0.55	0.33	ND	ND	ND	ND	0.56	1.45	ND	0.99	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - FINAL DESIGN PHASE	1988/10	1988/03	1991/04

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BRANTFORD
PLANT : AIRPORT WPCP (DISCHARGE TO A TILE FIELD)
WORKS NUMBER : 120004798
TREATMENT : COMMUNAL SEPTIC TANK
:
:
DESIGN CAPACITY : 0.22 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : BRANT
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NO DISC.TO SURFACE WATER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 65

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
PERCENT REMOVAL														
PERCENT REMOVAL LIMITS													0 30	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
PERCENT REMOVAL														
PERCENT REMOVAL LIMITS													0 50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30%	NO DIRECT DISCHARGE
SS	50%	NO DIRECT DISCHARGE
TP	NA	NO DIRECT DISCHARGE

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BRANTFORD
PLANT : BRANTFORD WPCP
WORKS NUMBER : 110000043
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 84.10 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : BRANT
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : GRAND RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 73,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	51.70	50.90	52.90	53.40	52.50	53.80	51.70	57.60	59.50	61.50	61.80	46.50	54.48	
BOD5														
INFLUENT (MG/L)	314.0	293.0	268.0	216.0	244.0	322.0	210.0	188.0	254.0	305.1	228.0	233.0	256.3	
EFFLUENT (MG/L)	14.3	17.0	17.4	15.7	18.7	17.5	20.8	23.9	16.2	18.2	13.9	10.2	17.C	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	739.31	865.30	920.46	838.38	981.75	941.50	1075.36	1376.64	963.90	1119.30	859.02	474.30	926.16	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	212.0	227.0	279.0	257.0	311.0	277.0	230.0	308.0	347.0	265.0	274.0	210.0	266.4	
EFFLUENT (MG/L)	15.3	11.1	10.5	9.6	17.0	12.2	18.4	24.0	12.2	9.6	9.5	9.3	13.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	791.01	564.99	555.45	512.64	892.50	656.36	951.28	1382.40	725.90	590.40	587.10	432.45	719.14	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.8	5.8	6.6	4.9	5.6	6.1	4.8	5.1	7.0	6.0	5.8	5.1	5.6	
EFFLUENT (MG/L)	0.8	0.7	1.0	0.8	0.9	1.0	1.0	1.1*	1.0	0.7	0.6	0.6	0.9	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	41.36	35.63	52.90	42.72	47.25	53.80	51.70	63.36	59.50	43.05	37.08	27.90	49.03	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

START DATE	END DATE	ANTICIPATED COMPLIANCE

INFLUENT SEWAGE - ENFORCING SEWER USE BYLAW

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BRANTFORD
PLANT : CAINSVILLE LAGOON (SERVES INDUSTRY)
WORKS NUMBER : 120004716
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 0.16 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : BRANT
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : FAIRCHILD CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 65

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	NO DISCHARGE
SS	40.0 MG/L	NO DISCHARGE
TP	1.0 MG/L	NO DISCHARGE

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : CAMBRIDGE
PLANT : GALT WPCP
WORKS NUMBER : 110000276
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 38.64 (1000 M3)

REGION : WEST CENTRAL
DISTRICT :
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : GRAND RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 50,103

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	28.91	30.01	30.03	31.00	31.33	30.62	29.67	27.20	30.91	31.42	33.98	31.35	30.54	
BOD5														
INFLUENT (MG/L)	172.0	168.0	198.0	184.0	212.0	214.0	250.0	186.0	176.0	187.0	181.0	225.0	196.1	
EFFLUENT (MG/L)	12.6	17.3	16.8	16.8	15.7	12.7	11.3	11.5	10.6	12.8	15.5	19.8	14.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	364.26	519.17	504.50	520.80	491.88	388.87	335.27	312.80	327.64	402.17	526.69	620.73	442.83	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	196.0	192.0	198.0	195.0	172.0	193.0	185.0	197.0	162.0	183.0	206.0	207.0	190.5	
EFFLUENT (MG/L)	18.2	20.6	19.4	18.8	17.2	13.7	13.2	13.9	14.3	15.1	19.2	31.9	18.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	526.16	618.20	582.58	582.80	538.87	419.49	391.64	378.08	442.01	474.44	652.41	1000.06	549.72	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.5	5.7	6.4	6.4	6.3	5.7	5.9	6.1	5.6	6.1	6.4	5.1	6.1	
EFFLUENT (MG/L)	0.6	0.6	0.7	0.7	0.6	0.6	0.5	0.6	0.6	0.6	0.7	0.8	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	17.34	18.00	21.02	21.70	18.79	18.37	14.83	16.32	18.54	18.85	23.78	25.08	18.32	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : CAMBRIDGE
PLANT : HESPELER WPCP
WORKS NUMBER : 110001033
TREATMENT : HIGH RATE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 9.31 (1000 M3)

REGION : WEST CENTRAL
DISTRICT :
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : SPEED RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 11,392

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	5.06	5.25	5.53	5.42	5.12	4.93	5.26	5.45	5.73	5.25	5.25	4.66	5.24	
BOD5														
INFLUENT (MG/L)	134.0	95.0	74.0	96.0	107.0	165.0	131.0	78.0	209.0	104.0	166.0	126.0	123.8	
EFFLUENT (MG/L)	11.3	33.3	27.7	17.5	16.8	19.6	11.7	26.1	35.0	15.2	17.9	15.5	20.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	57.17	174.82	153.18	94.85	86.01	96.62	61.54	142.24	200.55	79.80	93.97	72.23	107.94	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	187.0	135.0	120.0	154.0	198.0	173.0	161.0	149.0	261.0	225.0	206.0	226.0	182.9	
EFFLUENT (MG/L)	18.4	43.6	39.7	34.7	30.8	29.0	20.3	37.2	32.3	19.5	24.7	32.8	30.3*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	93.10	228.90	219.54	188.07	157.69	142.97	106.77	202.74	185.07	102.37	129.67	152.84	158.77	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.8	4.7	5.7	4.7	4.4	4.5	4.5	3.2	6.6	7.2	5.9	6.8	5.4	
EFFLUENT (MG/L)	1.1*	1.6*	1.2*	1.0	1.3*	0.8	0.9	1.8*	1.3*	1.0	1.0	1.2*	1.2	7
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	5.56	8.40	6.63	5.42	6.65	3.94	4.73	9.81	7.44	5.25	5.25	5.59	6.29	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	NO
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - ENVIRONMENTAL ASSESSMENT BEING CONDUCTED	1988/12	1989/09	1990/12

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : CAMBRIDGE
PLANT : PRESTON WPCP
WORKS NUMBER : 110000622
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 16.86 (1000 M3)

REGION : WEST CENTRAL
DISTRICT :
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : GRAND RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 18,727

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	7.87	8.31	8.72	9.21	7.86	8.25	7.82	8.52	8.65	8.14	8.77	8.02	8.35	
BOD5														
INFLUENT (MG/L)	349.0	519.0	624.0	541.0	460.0	641 0	574.0	633.0	598.0	520.0	419.0	438.0	526.3	
EFFLUENT (MG/L)	10.6	8.1	8.0	8.0	6.2	6.5	4.2	4.3	6.2	5.3	6.0	7.4	6.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	83.42	67.31	69.76	73.68	48.73	53.62	32.84	36.63	53.63	43.14	52.62	59.34	55.95	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	270.0	388.0	416.0	478.0	539.0	512.0	503.0	569.0	609.0	403.0	364.0	542.0	466.1	
EFFLUENT (MG/L)	11.4	10.5	9.2	8.0	5.2	5.4	6.4	9.7	6.4	6.6	6.5	11.8	8.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	89.71	87.25	80.22	73.68	40.87	44.55	50.04	82.64	55.36	53.72	57.00	94.63	67.64	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.2	6.6	7.0	6.4	8.5	8.1	7.0	7.7	7.9	6.6	6.5	7.2	7.1	
EFFLUENT (MG/L)	0.5	0.7	0.7	0.7	0.4	0.4	0.5	0.5	0.3	0.6	0.6	0.6	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	3.93	5.81	6.10	6.44	3.14	3.30	3.91	4.26	2.59	4.88	5.26	4.81	4.18	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALU OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : DELHI
PLANT : DELHI WPCP
WORKS NUMBER : 120001425
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
: AEROBIC SINGLE STAGE
DESIGN CAPACITY : 3.18 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : HALDIMAN-NORFOLK, REG. MUN.
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BIG CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,839

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.41	2.39	2.20	2.35	2.46	2.38	2.42	2.69	2.76	2.77	2.36	2.46	2.47	
BOD5														
INFLUENT (MG/L)	178.0	145.0	113.0	122.0	137.0	156.0	88.0	95.0	127.0	102.0	140.0	94.0	124.8	
EFFLUENT (MG/L)	4.8	4.1	4.6	10.1	7.5	4.4	5.4	16.7	7.5	20.0	15.0	8.5	9.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	11.56	9.79	10.12	23.73	18.45	10.47	13.06	44.92	20.70	55.40	35.40	20.91	22.48	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	156.0	178.0	117.0	144.0	200.0	190.0	132.0	221.0	168.0	222.0	124.0	ND	168.4	
EFFLUENT (MG/L)	12.0	6.6	9.5	6.8	7.6	2.9	5.9	8.6	8.7	11.7	10.6	ND	8.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	28.92	15.77	20.90	15.98	18.69	6.90	14.27	23.13	24.01	32.40	25.01	ND	20.50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.8	9.2	7.6	6.8	6.8	8.2	4.4	5.3	6.1	6.2	6.8	5.8	6.7	
EFFLUENT (MG/L)	0.2	0.5	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.48	1.19	0.44	0.23	0.24	0.23	0.48	0.53	0.55	0.55	0.47	0.49	0.49	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : DRAYTON
PLANT : DRAYTON LAGOON
WORKS NUMBER : 1200001782
TREATMENT : CONVENTIONAL LAGOON ANNUAL
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 0.55 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : WELLINGTON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : CONESTOGO RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED :

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.23	0.24	0.29	0.31	0.26	0.24	0.20	0.20	0.23	0.24	0.26	0.17	0.24	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	43.92	ND	43.92	
BOD5														
INFLUENT (MG/L)	620.0	157.0	140.0	102.0	186.0	129.0	348.0	105.0	338.0	3,443.0	185.0	ND	523.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.6	ND	13.6	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.53	ND	3.26	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	604.0	324.0	158.0	141.0	211.0	178.0	348.0	116.0	431.0	2,030.0	171.0	ND	428.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17.8	ND	17.8	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.62	ND	4.27	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	11.2	6.9	5.4	6.9	7.1	8.2	5.4	8.3	9.2	40.5	10.1	ND	10.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3	ND	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.07	ND	0.07	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : DUNDAS
PLANT : DUNDAS KING ST.WPCP
WORKS NUMBER : 120001372
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
DESIGN CAPACITY : 18.18 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : HAMILTON-WENTWORTH, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : COOTES PARADISE
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 19,501

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	13.30	14.86	15.04	15.04	12.53	8.26	8.99	9.69	10.01	10.36	11.88	11.20	11.76	
BOD5														
INFLUENT (MG/L)	176.0	158.0	127.0	127.0	122.0	139.0	108.0	110.0	126.0	125.0	119.0	138.0	131.3	
EFFLUENT (MG/L)	4.8	3.0	3.4	2.7	4.1	4.2	1.3	2.2	2.1	1.0	2.5	1.9	2.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	63.84	44.58	51.13	40.60	51.37	34.69	11.68	21.31	21.02	10.36	29.70	21.28	32.93	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	269.0	167.0	157.0	175.0	180.0	163.0	190.0	175.0	202.0	296.0	174.0	189.0	194.8	
EFFLUENT (MG/L)	3.7	6.8	6.4	4.0	4.4	6.2	4.2	3.0	1.6	2.0	2.9	2.1	3.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	49.21	101.04	96.25	60.16	55.13	51.21	37.75	29.07	16.01	20.72	34.45	23.52	45.86	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.0	5.5	5.0	5.8	4.3	4.0	3.6	3.9	4.3	3.5	3.3	3.8	4.4	
EFFLUENT (MG/L)	0.1	0.2	0.2	0.2	0.5	0.8	0.7	0.6	0.4	0.2	0.2	0.3	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	1.33	2.97	3.00	3.00	6.26	6.60	6.29	5.81	4.00	2.07	2.37	3.36	4.70	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : DUNNVILLE
PLANT : DUNNVILLE WPCP
WORKS NUMBER : 120001443
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 7.72 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : HALDIMAN-NORFOLK, REG. MUN.
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : GRAND RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 5,471

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	4.20	5.10	4.55	4.20	4.00	3.50	4.10	7.30	4.20	4.30	5.48	4.40	4.61	
BOD5														
INFLUENT (MG/L)	92.0	56.0	94.0	66.0	51.0	76.0	66.0	69.0	131.0	97.0	101.0	85.0	82.0	
EFFLUENT (MG/L)	18.5	36.9	5.0	ND	9.7	6.7	3.3	6.7	5.9	4.2	10.1	7.6	10.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	77.70	188.19	22.75	ND	38.80	23.45	13.53	48.91	24.78	18.06	55.34	33.44	47.94	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	156.0	120.0	136.0	132.0	156.0	103.0	88.0	113.0	116.0	140.0	120.0	119.0	124.9	
EFFLUENT (MG/L)	32.0	15.9	25.2	14.0	13.4	8.4	8.5	18.5	10.3	11.0	11.2	11.7	15.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	134.40	81.09	114.66	58.80	53.60	29.40	34.85	135.05	43.26	47.30	61.37	51.48	69.15	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.3	5.4	6.2	5.7	5.3	4.9	5.0	4.9	4.9	4.8	5.0	5.1	5.2	
EFFLUENT (MG/L)	0.8	0.7	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.7	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	3.36	3.57	2.73	2.52	2.80	2.45	2.87	5.11	2.94	3.01	3.28	3.08	3.23	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : DUNNVILLE
PLANT : OSWEGO PARK LAGOON
WORKS NUMBER : 110003068
TREATMENT : CONVENTIONAL LAGOON ANNUAL
:
:
DESIGN CAPACITY : 0.09 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : HALDIMAN-NORFOLK, REG. MUN.
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : OSWEGO CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 250

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.33	0.16	0.08	0.18	0.13	0.15	0.13	0.11	0.14	0.16	0.26	0.23	0.17	
LAGOON DISCHARGE	ND	ND	ND	2.00	ND	ND	ND	ND	ND	ND	ND	ND	2.00	
BOD5														
INFLUENT (MG/L)	77.0	ND	ND	ND	349.0	283.0	ND	206.0	431.0	216.0	50.0	229.0	230.1	
EFFLUENT (MG/L)	ND	ND	ND	59.3	ND	ND	ND	ND	ND	18.0	ND	ND	38.7*	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	10.67	ND	ND	ND	ND	ND	2.88	ND	ND	6.58	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	112.0	ND	ND	ND	470.0	281.0	ND	317.0	641.0	371.0	ND	191.0	340.4	
EFFLUENT (MG/L)	ND	ND	ND	85.3	ND	ND	ND	ND	ND	21.0	ND	ND	53.2*	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	15.35	ND	ND	ND	ND	ND	3.36	ND	ND	9.04	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.8	ND	ND	ND	16.2	13.6	ND	11.6	18.0	2.9	4.4	12.2	10.2	
EFFLUENT (MG/L)	ND	ND	ND	6.9	ND	ND	ND	ND	ND	6.2	ND	ND	6.6	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	1.24	ND	ND	ND	ND	ND	0.99	ND	ND	1.12	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	NO
SS	40.0 MG/L	NO
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

NO ACTION - ALGAE BLOOMS

START DATE	END DATE	ANTICIPATED COMPLIANCE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ELORA
PLANT : ELORA WPCP
WORKS NUMBER : 110000178
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 3.06 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : WELLINGTON
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : GRAND RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,129

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.01	0.98	1.05	1.15	1.02	0.97	0.93	0.98	1.04	1.36	1.37	1.35	1.10	
BOD5														
INFLUENT (MG/L)	150.0	125.0	124.0	121.0	108.0	158.0	246.0	153.0	176.0	186.0	172.0	125.0	153.7	
EFFLUENT (MG/L)	2.3	ND	4.1	4.6	1.8	1.6	3.2	4.2	4.1	4.7	7.1	3.7	3.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2.32	ND	4.30	5.29	1.83	1.55	2.97	4.11	4.26	6.39	9.72	4.99	4.18	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	149.0	159.0	165.0	146.0	160.0	196.0	237.0	166.0	175.0	275.0	157.0	156.0	178.4	
EFFLUENT (MG/L)	6.5	3.8	4.8	9.0	5.9	5.6	2.7	5.7	5.9	3.8	4.8	5.7	5.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	6.56	3.72	5.04	10.35	6.01	5.43	2.51	5.58	6.13	5.16	6.57	7.69	5.94	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.1	7.7	7.5	5.2	4.8	7.6	8.3	7.7	7.5	6.4	7.5	7.6	7.2	
EFFLUENT (MG/L)	0.4	0.8	0.4	0.4	0.6	0.4	0.4	0.4	1.0	0.7	0.6	0.3	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.40	0.78	0.42	0.46	0.61	0.38	0.37	0.39	1.04	0.95	0.82	0.40	0.55	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : FERGUS
PLANT : FERGUS WPCP
WORKS NUMBER : 110000249
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 5.00 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : WELLINGTON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : GRAND RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 6,050

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	4.18	3.97	5.04	5.33	3.83	3.28	3.05	3.18	3.31	3.64	4.83	4.02	3.97	
BOD5														
INFLUENT (MG/L)	87.0	106.0	122.0	70.0	81.0	95.0	175.0	98.0	104.0	140.0	88.0	ND	106.0	
EFFLUENT (MG/L)	14.9	22.4	15.4	9.9	11.5	13.7	9.4	7.3	17.5	21.2	13.6	ND	14.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	62.28	88.92	77.61	52.76	44.04	44.93	28.67	23.21	57.92	77.16	65.68	ND	56.77	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	184.0	204.0	178.0	388.0	193.0	343.0	222.0	286.0	293.0	218.0	225.0	216.0	245.8	
EFFLUENT (MG/L)	51.0	56.7	32.2	37.1	35.8	33.0	34.9	34.5	29.7	37.3	35.1	33.3	37.6*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	213.18	225.09	162.28	197.74	137.11	108.24	106.44	109.71	98.30	135.77	169.53	133.86	149.27	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.0	3.9	6.2	4.1	3.7	7.4	5.4	4.9	6.4	5.6	3.4	6.0	5.2	
EFFLUENT (MG/L)	0.7	1.0	0.7	0.4	0.4	0.8	0.7	0.7	0.6	0.7	0.5	0.5	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	2.92	3.97	3.52	2.13	1.53	2.62	2.13	2.22	1.98	2.54	2.41	2.01	2.38	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	NO
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
INFLUENT SEWAGE - INSTALLING INDUSTRIAL PRETREATMENT		1989/09/01	1990/01/01

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : FLAMBOROUGH
PLANT : WATERDOWN WPCP
WORKS NUMBER : 120005001
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
DESIGN CAPACITY : 2.72 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : HAMILTON-WENTWORTH, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : GRINDSTONE CREEK
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,900

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.15	2.22	2.60	2.55	2.20	2.02	1.94	1.87	2.32	2.41	2.61	2.41	2.28	
BOD5														
INFLUENT (MG/L)	190.0	125.0	122.0	114.0	116.0	114.0	132.0	145.0	122.0	115.0	114.0	193.0	133.5	
EFFLUENT (MG/L)	7.1	3.0	1.1	2.0	2.0	1.5	1.3	1.9	1.6	0.8	1.6	1.6	2.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	15.26	6.66	2.86	5.10	4.40	3.03	2.52	3.55	3.71	1.92	4.17	3.85	4.79	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	176.0	173.0	137.0	148.0	152.0	158.0	183.0	170.0	180.0	156.0	195.0	136.0	163.7	
EFFLUENT (MG/L)	1.4	1.0	0.9	1.6	1.0	1.0	1.5	1.0	1.5	0.8	2.7	2.5	1.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.01	2.22	2.34	4.08	2.20	2.02	2.91	1.87	3.48	1.92	7.04	6.02	3.19	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.5	5.6	5.2	5.9	4.8	3.8	4.0	4.0	4.1	3.5	3.3	4.5	4.6	
EFFLUENT (MG/L)	0.2	0.9	0.5	0.2	0.3	0.2	0.5	0.4	0.3	0.3	0.2	0.3	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.43	1.99	1.30	0.51	0.66	0.40	0.97	0.74	0.69	0.72	0.52	0.72	0.91	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : FORT ERIE
PLANT : ANGER AVE.WPCP
WORKS NUMBER : 120001292
TREATMENT : PRIMARY
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 16.36 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : NIAGARA, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NIAGARA RIVER
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 13,765

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	9.10	14.17	11.39	9.11	8.74	7.33	9.12	8.56	7.83	10.06	10.45	8.51	9.53	
BOD5														
INFLUENT (MG/L)	104.0	32.0	73.0	90.0	74.0	106.0	130.0	45.0	91.0	65.0	49.0	67.0	77.2	
EFFLUENT (MG/L)	43.1	32.0	19.8	52.7	44.8	56.2	49.2	52.4	36.7	42.5	30.3	ND	41.8	
LOADING (KG/D)	392.21	453.44	225.52	480.09	391.55	411.94	448.70	448.54	287.36	427.55	316.63	ND	398.35	
PERCENT REMOVAL	59		73	41	39	47	62	ND	60	35	38		46*	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	79.0	63.0	68.0	127.0	67.0	92.0	82.0	51.0	91.0	81.0	78.0	98.0	81.4	
EFFLUENT (MG/L)	28.6	27.7	23.9	31.5	35.4	30.5	29.2	34.9	44.8	26.8	24.4	30.4	30.7	
LOADING (KG/D)	260.26	392.50	272.22	286.96	309.39	223.56	266.30	298.74	350.78	269.60	254.98	258.70	292.57	
PERCENT REMOVAL	64	56	65	75	47	67	64	32	51	67	69	69	62*	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.6	2.5	2.8	4.5	4.0	4.2	3.7	3.4	4.4	3.4	2.9	3.3	3.6	
EFFLUENT (MG/L)	0.7	0.6	0.7	0.8	1.0	1.0	1.1*	0.8	1.0	0.7	0.7	0.8	0.8	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	6.37	8.50	7.97	7.28	8.74	7.33	10.03	6.84	7.83	7.04	7.31	6.80	7.62	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	50%	NO
SS	70%	NO
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW		
FACILITY EXPANSION/UPGRADING TO SECONDARY PLANT		1988

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : FORT ERIE
PLANT : CRYSTAL BEACH WPCP
WORKS NUMBER : 120001283
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 3.88 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : NIAGARA, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ERIE
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 4,095

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	4.48	6.95	4.82	4.67	3.53	2.88	3.54	3.30	2.90	2.90	3.45	3.62	3.92	
BOD5														
INFLUENT (MG/L)	65.0	46.0	38.0	58.0	46.6	66.0	50.0	75.0	95.0	91.0	50.0	84.0	63.7	
EFFLUENT (MG/L)	27.3	22.2	16.8	17.1	49.0	16.9	46.3	16.9	28.5	26.7	12.1	15.4	24.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	122.30	154.29	80.97	79.85	172.97	48.67	163.90	55.77	82.65	77.43	41.74	55.74	96.43	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	85.0	46.0	57.0	102.0	78.1	106.0	94.0	130.0	139.0	106.0	81.0	82.0	92.2	
EFFLUENT (MG/L)	25.7	20.0	19.8	11.3	8.5	23.1	49.5	10.6	25.4	23.8	11.4	19.1	20.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	115.13	139.00	95.43	52.77	30.00	66.52	175.23	34.98	73.66	69.02	39.33	69.14	81.14	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.3	2.3	2.7	2.8	3.5	3.8	3.7	4.1	5.6	4.2	2.9	5.5	3.7	
EFFLUENT (MG/L)	1.4*	0.9	0.5	0.5	1.1*	1.4*	2.3*	1.1*	1.1*	0.4	0.4	0.9	1.0	6
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	6.27	6.25	2.41	2.33	3.88	4.03	8.14	3.63	3.19	1.16	1.38	3.25	3.92	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW			
FACILTY EXPANSION/UPGRADING - ENVIRONMENTAL ASSESSMENT BEING CONDUCTED	1988	1990	

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : FORT ERIE
PLANT : STEVENSVILLE-DOUGLASTOWN LAGOON
WORKS NUMBER : 120003110
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS
:
:
DESIGN CAPACITY : 2.29 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : NIAGARA, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NIAGARA RIVER
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.53	0.60	0.63	0.59	0.55	0.45	0.55	0.49	0.58	0.65	0.71	0.66	0.58	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	128.0	45.0	115.0	75.0	74.0	125.0	62.0	110.0	64.0	58.0	56.0	34.0	78.8	
EFFLUENT (MG/L)	1.3	12.0	17.4	9.8	7.4	3.6	42.3	5.0	5.0	1.5	7.2	3.2	9.6	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	0.68	7.20	10.96	5.78	4.07	1.62	23.26	2.45	2.90	0.97	5.11	2.11	5.57	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	77.5	79.0	214.0	74.0	80.0	200.0	125.0	102.0	90.0	96.0	147.0	80.0	113.7	
EFFLUENT (MG/L)	9.1	11.5	15.1	16.2	8.0	11.2	24.0	4.6	3.3	6.0	15.1	44.8	14.1	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	4.82	6.90	9.51	9.55	4.40	5.04	13.20	2.25	1.91	3.90	10.72	29.56	8.18	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.4	4.6	8.2	6.7	4.5	12.1	6.5	6.2	5.8	20.7	17.9	6.8	8.9	
EFFLUENT (MG/L)	1.4	1.9	2.4	1.8	1.3	1.4	2.9	0.4	1.8	1.5	2.5	3.0	1.9	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.74	1.14	1.51	1.06	0.71	0.63	1.59	0.19	1.04	0.97	1.77	1.98	1.10	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : GRAND VALLEY
PLANT : GRAND VALLEY WPCP
WORKS NUMBER : 110000301
TREATMENT : OXIDATION DITCH
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 0.60 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : DUFFERIN
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : GRAND RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,060

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.36	0.39	0.56	0.63	0.40	0.34	0.31	0.33	0.35	0.37	0.47	0.40	0.41	
BOD5														
INFLUENT (MG/L)	217.0	217.0	272.0	223.0	313.0	282.0	301.0	274.0	265.0	330.0	237.0	250.0	265.1	
EFFLUENT (MG/L)	11.0	20.7	11.2	5.7	13.8	5.4	4.5	2.5	1.1	1.7	3.0	6.1	7.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.96	8.07	6.27	3.59	5.52	1.83	1.39	0.82	0.38	0.62	1.41	2.44	2.95	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	115.0	166.0	130.0	92.0	196.0	186.0	215.0	186.0	239.0	183.0	159.0	129.0	166.3	
EFFLUENT (MG/L)	21.0	29.1	21.8	8.4	8.3	8.3	6.9	6.6	6.1	5.7	8.1	7.0	11.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	7.56	11.34	12.20	5.29	3.32	2.82	2.13	2.17	2.13	2.10	3.80	2.80	4.67	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.8	9.2	2.9	4.0	7.9	7.9	9.2	6.7	7.1	4.8	6.4	6.5	6.5	
EFFLUENT (MG/L)	0.3	1.3*	0.8	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.4	0.5	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.10	0.50	0.44	0.31	0.20	0.17	0.15	0.16	0.14	0.14	0.14	0.16	0.21	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

START DATE	END DATE	ANTICIPATED COMPLIANCE

NO ACTION - MARGINAL FAILURE-MONITORING LEVEL OF FAILED PARAMETER CLOSELY

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : GRIMSBY
PLANT : BAKER ROAD WPCP
WORKS NUMBER : 120001684
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 18.18 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : NIAGARA, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 19,850

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	10.82	14.19	12.25	12.34	11.21	9.44	10.72	11.30	10.44	11.20	12.88	11.59	11.53	
BOD5														
INFLUENT (MG/L)	193.0	167.0	171.0	140.0	189.0	196.0	155.0	150.0	251.0	212.0	143.0	175.0	178.5	
EFFLUENT (MG/L)	22.4	27.5	29.7	27.4	24.0	6.7	7.5	13.2	12.6	22.8	29.3	28.8	21.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	242.36	390.22	363.82	338.11	269.04	63.24	80.40	149.16	131.54	255.36	377.38	333.79	242.13	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	212.0	160.0	239.0	213.0	232.0	261.0	230.0	224.0	238.0	218.0	188.0	191.0	217.2	
EFFLUENT (MG/L)	9.5	7.4	7.8	4.5	5.4	3.5	7.0	6.5	5.6	17.0	12.3	8.0	7.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	102.79	105.00	95.55	55.53	60.53	33.04	75.04	73.45	58.46	190.40	158.42	92.72	91.09	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.7	4.6	6.1	7.5	6.4	8.3	7.2	6.3	7.0	4.9	5.5	8.4	6.6	
EFFLUENT (MG/L)	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.9	0.5	0.3	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	3.24	4.25	2.45	2.46	2.24	1.88	3.21	4.52	5.22	10.08	6.44	3.47	4.61	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : GRIMSBY
PLANT : BIGGAR LAGOON
WORKS NUMBER : 120001256
TREATMENT : AERATED CELL PLUS LAGOON
: CONTINUOUS DISCHARGE
:
DESIGN CAPACITY : 1.13 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : NIAGARA, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,075

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.76	1.10	0.82	0.88	0.85	0.78	0.89	6.59	1.76	1.85	1.45	0.93	1.56	
LAGOON DISCHARGE	23.70	31.71	25.42	26.26	26.18	23.38	27.47	32.73	52.73	57.40	43.39	28.34	33.23	
BOD5														
INFLUENT (MG/L)	201.0	242.0	149.0	234.0	226.0	309.0	203.0	398.0	846.0	384.0	249.0	398.0	319.9	
EFFLUENT (MG/L)	5.1	7.7	7.2	5.4	8.6	5.7	3.9	10.2	4.4	4.1	9.2	4.2	6.3	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	3.87	8.47	5.90	4.75	7.31	4.44	3.47	67.21	7.74	7.58	13.34	3.90	9.83	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	111.0	102.0	91.0	90.0	116.0	175.0	133.0	166.0	376.0	150.0	107.0	137.0	146.2	
EFFLUENT (MG/L)	6.2	3.2	5.6	13.2	6.5	4.0	3.6	5.2	3.2	11.1	8.1	4.1	6.2	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	4.71	3.52	4.59	11.61	5.52	3.12	3.20	34.26	5.63	20.53	11.74	3.81	9.67	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.7	4.3	5.2	4.8	4.2	5.5	5.1	6.3	5.3	3.8	2.6	6.2	4.8	
EFFLUENT (MG/L)	3.2	3.1	2.5	2.8	2.2	2.3	0.7	1.6	3.8	2.1	2.0	2.6	2.4	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	2.43	3.41	2.05	2.46	1.87	1.79	0.62	10.54	6.68	3.88	2.90	2.41	3.74	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: GUELPH	REGION	: WEST CENTRAL
PLANT	: GUELPH WPCP	DISTRICT	: WELLINGTON
WORKS NUMBER	: 120003094	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: CONVENTIONAL ACTIVATED SLUDGE	WATERCOURSE	: SPEED RIVER
	: PHOSPHORUS REMOVAL-CONTINUOUS	MINOR BASIN	: ERIE
	: EFFLUENT POLISHING	MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 54.55 (1000 M3)	POPULATION SERVED	: 82,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	41.14	42.34	43.12	43.44	42.85	41.04	36.56	40.61	43.08	41.12	44.33	41.17	41.73	
BOD5														
INFLUENT (MG/L)	183.0	236.0	ND	160.0	166.0	166.0	212.0	164.0	176.0	190.0	163.0	179.0	181.4	
EFFLUENT (MG/L)	11.7	13.0	ND	12.9	5.1	10.7	7.4	8.2	5.0	4.6	7.5	4.0	8.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	481.33	550.42	ND	560.37	218.53	439.12	270.54	333.00	215.40	189.15	332.47	164.68	342.19	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	210.0	188.0	ND	160.0	192.0	185.0	188.0	238.0	208.0	202.0	209.0	163.0	194.8	
EFFLUENT (MG/L)	13.3	14.0	ND	14.8	9.8	12.0	9.4	12.3	9.6	8.8	10.7	8.9	11.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	547.16	592.76	ND	642.91	419.93	492.48	343.66	499.50	413.56	361.85	474.33	366.41	467.38	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.3	5.4	ND	5.3	6.9	6.3	6.5	7.9	11.4	6.4	6.9	7.4	6.9	
EFFLUENT (MG/L)	0.5	0.7	ND	0.6	0.5	0.5	0.4	0.5	0.5	0.5	0.9	0.9	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	20.57	29.63	ND	26.06	21.42	20.52	14.62	20.30	21.54	20.56	39.89	37.05	25.04	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : HALDIMAND
PLANT : CALEDONIA WPCP
WORKS NUMBER : 120001452
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 2.27 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : HALDIMAN-NORFOLK, REG. MUN.
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : GRAND RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 4,237

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.07	2.39	2.49	2.55	2.36	2.35	2.70	2.57	2.43	2.66	2.83	2.47	2.49	
BOD5														
INFLUENT (MG/L)	148.0	118.0	125.0	100.0	133.0	133.0	136.0	165.0	119.0	168.0	277.0	273.0	157.9	
EFFLUENT (MG/L)	3.3	19.2	36.0	17.1	17.1	30.6	29.9	12.2	17.6	15.9	16.0	19.6	19.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	6.83	45.88	89.64	43.60	40.35	71.91	80.73	31.35	42.76	42.29	45.28	48.41	48.56	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	235.0	250.0	243.0	188.0	266.0	261.0	244.0	258.0	180.0	192.0	136.0	219.0	222.7	
EFFLUENT (MG/L)	21.6	39.4	23.7	20.5	14.7	13.8	46.6	10.9	12.0	8.4	7.2	18.7	19.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	44.71	94.16	59.01	52.27	34.69	32.43	125.82	28.01	29.16	22.34	20.37	46.18	49.30	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.5	8.0	6.7	6.0	7.0	6.3	6.2	6.2	6.0	5.3	5.5	5.5	6.3	
EFFLUENT (MG/L)	0.5	1.0	0.7	0.4	0.3	0.3	0.8	0.2	0.3	0.2	0.2	0.3	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	1.03	2.39	1.74	1.02	0.70	0.70	2.16	0.51	0.72	0.53	0.56	0.74	1.00	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - CONSTRUCTION INITIATED			

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : HALDIMAND
PLANT : CAYUGA WPCP
WORKS NUMBER : 110000089
TREATMENT : OXIDATION DITCH
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 0.90 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : HALDIMAN-NORFOLK, REG. MUN.
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : GRAND RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,049

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.38	0.57	0.49	0.45	0.38	0.32	0.51	0.36	0.40	0.50	0.65	0.50	0.46	
BOD5														
INFLUENT (MG/L)	113.0	63.0	130.0	96.0	147.0	162.0	151.0	84.0	89.0	69.0	54.0	194.0	112.7	
EFFLUENT (MG/L)	1.9	2.1	3.1	2.2	2.6	2.6	1.9	1.6	2.4	8.6	10.2	4.1	3.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.72	1.19	1.51	0.99	0.98	0.83	0.96	0.57	0.96	4.30	6.63	2.05	1.66	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	117.0	69.0	170.0	131.0	174.0	239.0	142.0	95.0	104.0	90.0	55.0	263.0	137.4	
EFFLUENT (MG/L)	4.4	9.9	7.0	7.9	7.6	2.7	3.7	3.9	5.1	14.7	22.0	10.0	8.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.67	5.64	3.43	3.55	2.88	0.86	1.88	1.40	2.04	7.35	14.30	5.00	3.77	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.8	4.5	8.4	6.2	7.2	7.9	6.9	5.8	6.2	4.2	3.1	6.6	6.2	
EFFLUENT (MG/L)	0.2	0.3	0.4	0.2		0.2	0.2	0.3	ND	0.6	0.4	0.5	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.07	0.17	0.19	0.09		0.06	0.10	0.10	ND	0.30	0.26	0.25	0.14	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
- EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1986 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : HALDIMAND
PLANT : HAGERSVILLE WPCP
WORKS NUMBER : 110001024
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
: AEROBIC SINGLE STAGE
DESIGN CAPACITY : 1.00 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : HALDIMAN-NORFOLK, REG. MUN.
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : SANDUSK CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,362

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.10	1.52	1.43	1.30	0.97	0.74	1.08	0.96	1.05	1.24	1.78	1.28	1.20	
BOD5														
INFLUENT (MG/L)	224.0	140.0	110.0	210.0	182.0	103.0	249.0	168.0	211.0	138.0	109.0	154.0	166.5	
EFFLUENT (MG/L)	3.9	0.5	5.8	5.8	6.8	33.0	18.5	5.9	16.3	28.2	12.9	13.3	12.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	4.29	0.76	8.29	7.54	6.59	24.42	19.98	5.66	17.11	34.96	22.96	17.02	15.12	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	100.0	101.0	93.0	123.0	117.0	136.0	87.0	183.0	132.0	128.0	42.1	93.0	111.3	
EFFLUENT (MG/L)	8.2	11.4	10.7	9.3	9.0	4.3	7.3	7.1	6.9	7.6	9.0	9.0	8.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	9.02	17.32	15.30	12.09	8.73	3.18	7.88	6.81	7.24	9.42	16.02	11.52	9.96	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.5	4.2	4.4	6.3	7.3	7.4	5.0	6.0	7.3	6.4	4.8	8.0	6.3	
EFFLUENT (MG/L)	0.2	0.2	0.3	0.2	0.2	0.2	0.1	0.3	0.4	0.6	0.4	0.3	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.22	0.30	0.42	0.26	0.19	0.14	0.10	0.28	0.42	0.74	0.71	0.38	0.36	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
M - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : HAMILTON
PLANT : WOODWARD AVE.WPCP (OFFSITE CHEM.ADDN)
WORKS NUMBER : 120001504
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 409.14 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : HAMILTON-WENTWORTH, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : REDHILL CREEK
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 300,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	289.52	313.67	303.06	305.95	301.40	302.31	296.40	331.86	315.04	308.22	302.76	269.12	303.28	
BOD5														
INFLUENT (MG/L)	271.0	163.0	188.0	184.0	174.0	204.0	187.0	157.0	140.0	175.0	187.0	186.0	184.7	
EFFLUENT (MG/L)	36.0	16.0	14.0	21.0	21.0	7.1	2.0	5.0	4.8	12.0	12.5	14.0	13.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	422.72	5018.72	4242.84	6424.95	6329.40	2146.40	592.80	1659.30	1512.19	3698.64	3784.50	3767.68	4185.26	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	584.0	451.0	593.0	528.0	440.0	500.0	757.0	425.0	472.0	542.0	427.0	475.0	516.2	
EFFLUENT (MG/L)	21.0	36.0	32.0	41.0	31.0	14.4	10.0	15.0	14.3	22.0	22.7	29.0	24.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	6079.92	1292.12	9697.92	2543.95	9343.40	4353.26	2964.00	4977.90	4505.07	6780.84	6872.65	7804.48	7278.72	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.7	5.3	6.5	7.0	5.3	4.5	4.0	4.0	4.3	3.9	3.7	4.1	5.0	
EFFLUENT (MG/L)	1.2*	1.3*	1.2*	1.4*	1.2*	0.8	0.5	0.4	0.3	0.4	0.4	0.6	0.8	5
CONCENTRATION LIMI (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	347.42	407.77	363.67	428.33	361.68	241.84	148.20	132.74	94.51	123.28	121.10	161.47	242.62	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED			1988/06

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : HARRISTON
PLANT : HARRISTON LAGOON
WORKS NUMBER : 110000329
TREATMENT : AERATED LAGOON
: SEASONAL DISCHARGE
:
DESIGN CAPACITY : 0.99 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : WELLINGTON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : MAITLAND RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,963

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.38	1.55	1.77	1.68	1.37	1.48	0.95	0.94	0.99	1.45	1.88	1.65	1.42	
LAGOON DISCHARGE	16.07	23.24	21.77	68.25	ND	ND	ND	ND	ND	ND	20.62	53.55	33.92	
BOD5														
INFLUENT (MG/L)	530.0	317.0	275.0	182.0	198.0	214.0	201.0	256.0	168.0	170.0	88.7	116.0	226.3	
EFFLUENT (MG/L)	9.0	7.5	10.8	12.9	ND	ND	ND	ND	ND	ND	6.5	3.7	8.4	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	12.42	11.62	19.11	21.67	ND	ND	ND	ND	ND	ND	12.22	6.10	11.93	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	884.0	438.0	411.0	213.0	456.0	522.0	548.0	666.0	562.0	296.0	413.9	171.0	465.1	
EFFLUENT (MG/L)	13.0	8.6	11.7	22.9	ND	ND	ND	ND	ND	ND	5.5	4.9	11.1	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	17.94	13.33	20.70	38.47	ND	ND	ND	ND	ND	ND	10.34	8.08	15.76	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	35.7	15.8	13.1	13.7	16.3	17.1	18.1	25.9	18.1	10.7	5.2	5.4	16.3	
EFFLUENT (MG/L)	0.9	0.8	0.4	0.2	ND	ND	ND	ND	ND	ND	0.4	0.3	0.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	1.24	1.24	0.70	0.33	ND	ND	ND	ND	ND	ND	0.75	0.49	0.71	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : KITCHENER
PLANT : KITCHENER WPCP
WORKS NUMBER : 110000374
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 122.74 (1000 M3)

REGION : WEST CENTRAL
DISTRICT :
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : GRAND RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 138,271

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	68.59	67.34	73.35	73.34	69.95	66.72	64.16	66.62	69.24	70.40	77.82	71.39	69.91	
BOD5														
INFLUENT (MG/L)	310.0	273.0	239.0	264.0	289.0	295.0	272.0	191.0	211.0	243.0	194.0	218.0	249.9	
EFFLUENT (MG/L)	15.5	9.6	14.7	10.4	15.2	11.0	21.9	10.1	8.5	10.5	9.0	9.8	12.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1063.14	646.46	1078.24	762.73	1063.24	733.92	1405.10	672.86	588.54	739.20	700.38	699.62	852.90	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	241.0	252.0	232.0	243.0	240.0	243.0	251.0	243.0	220.0	227.0	220.0	260.0	239.3	
EFFLUENT (MG/L)	6.7	5.0	3.9	4.2	4.8	3.0	17.4	5.4	3.1	3.4	5.3	6.8	5.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	459.55	336.70	286.06	308.02	335.76	200.16	1116.38	359.74	214.64	239.36	412.44	485.45	405.48	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.4	6.6	7.0	6.6	7.0	8.0	8.1	7.2	8.0	7.9	7.3	8.4	7.4	
EFFLUENT (MG/L)	0.5	0.4	0.6	0.6	0.8	0.9	1.4*	0.8	0.8	0.8	0.7	0.8	0.8	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	34.29	26.93	44.01	44.00	55.96	60.04	89.82	53.29	55.39	56.32	54.47	57.11	55.93	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
INFLUENT SEWAGE - ENFORCING SEWER USE BYLAW	1988/07/01	1988/08/01	

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MOUNT FOREST
PLANT : MOUNT FOREST WPCP
WORKS NUMBER : 120001381
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 2.45 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : WELLINGTON
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : SAUGEEN RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,599

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.92	1.99	2.55	2.31	1.81	1.49	1.27	1.46	ND	1.90	2.68	2.20	1.96	
BOD5														
INFLUENT (MG/L)	218.0	372.0	96.0	106.0	137.0	309.0	381.0	180.0	228.0	70.0	61.0	91.0	187.4	
EFFLUENT (MG/L)	5.3	6.4	5.0	3.7	4.3	2.3	3.3	3.4	1.3	3.1	6.1	4.4	4.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	10.17	12.73	12.75	8.54	7.78	3.42	4.19	4.96	ND	5.89	16.34	9.68	8.04	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	330.0	365.5	254.0	344.0	645.0	282.0	342.0	452.0	362.0	66.0	104.0	149.0	308.0	
EFFLUENT (MG/L)	6.6	11.9	8.6	7.0	5.3	3.3	6.2	5.7	4.9	4.5	6.9	5.0	6.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	12.67	23.68	21.93	16.17	9.59	4.91	7.87	8.32	ND	8.55	18.49	11.00	12.35	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	11.8	13.4	9.1	5.7	7.9	28.0	9.5	5.7	9.1	4.9	3.9	5.0	9.5	
EFFLUENT (MG/L)	1.3*	1.2*	0.7	0.7	1.0	0.8	0.6	0.5	0.6	0.2	0.3	0.2	0.7	2
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	2.49	2.38	1.78	1.61	1.81	1.19	0.76	0.73	ND	0.38	0.80	0.44	1.37	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - MINOR PROCESS/OPERATIONAL MODIFICATION	1988/03	1988/03	1988/03

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NANTICOKE
PLANT : JARVIS LAGOON
WORKS NUMBER : 120001434
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 0.54 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : HALDIMAN NORFOLK, REG. MUN.
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : SANDUSK CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,250

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.76	0.91	0.85	0.68	0.68	0.53	0.73	0.71	0.59	0.74	1.00	0.85	0.75	
LAGOON DISCHARGE	ND	ND	ND	96.00	ND	ND	ND	ND	ND	96.00	ND	ND	96.00	
BOD5														
INFLUENT (MG/L)	131.0	113.0	73.0	147.0	178.0	188.0	91.0	125.0	92.0	151.0	84.0	192.0	130.4	
EFFLUENT (MG/L)	ND	ND	ND	19.1	ND	ND	ND	ND	ND	13.1	ND	ND	16.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	12.98	ND	ND	ND	ND	ND	9.69	ND	ND	12.08	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	110.0	169.0	79.0	144.0	203.0	319.0	108.0	126.0	118.0	110.0	ND	144.0	148.2	
EFFLUENT (MG/L)	ND	ND	ND	20.9	ND	ND	ND	ND	ND	20.9	ND	ND	20.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	14.21	ND	ND	ND	ND	ND	15.46	ND	ND	15.68	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.7	6.6	4.8	8.0	7.4	7.7	14.0	11.5	6.4	7.6	4.6	6.8	7.8	
EFFLUENT (MG/L)	ND	ND	ND	0.7	ND	ND	ND	ND	ND	0.7	ND	ND	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	0.47	ND	ND	ND	ND	ND	0.51	ND	ND	0.53	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - CONSTRUCTION INITIATED	1988/08		

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NANTICOKE
PLANT : PORT DOVER WPCP
WORKS NUMBER : 110000604
TREATMENT : PRIMARY
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 4.09 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : HALDIMAN-NORFOLK, REG. MUN.
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : LAKE ERIE
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,475

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.92	3.40	3.53	2.53	2.56	2.67	2.98	3.90	3.33	3.30	3.70	ND	3.17	
BOD5														
INFLUENT (MG/L)	105.0	45.0	103.0	113.0	183.0	112.0	406.0	246.0	546.0	203.0	118.0	ND	198.2	
EFFLUENT (MG/L)	26.0	18.3	33.2	31.9	21.8	29.5	104.0	71.2	49.0	20.0	16.7	ND	38.3	
LOADING (KG/D)	75.92	62.22	117.19	80.70	55.80	78.76	309.92	277.68	163.17	66.00	61.79	ND	121.41	
PERCENT REMOVAL	75	59	68	72	88	74	74	71	91	90	86		81	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	250.0	51.0	114.0	76.0	116.0	147.0	165.0	152.0	331.0	74.0	74.0	ND	140.9	
EFFLUENT (MG/L)	13.2	17.7	42.5	19.5	18.0	24.9	41.2	29.8	23.0	8.9	8.9	ND	22.5	
LOADING (KG/D)	38.54	60.18	150.02	49.33	46.08	66.48	122.77	116.22	76.59	29.37	32.93	ND	71.33	
PERCENT REMOVAL	95	65	63	74	84	83	75	80	93	88	88		84	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.0	2.8	4.8	5.6	7.7	5.9	6.2	5.5	9.0	21.9	3.7	ND	7.2	
EFFLUENT (MG/L)	0.7	0.4	1.2*	0.9	0.4	0.6	0.8	0.3	0.6	0.2	0.3	ND	0.6	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	2.04	1.36	4.23	2.27	1.02	1.60	2.38	1.17	1.99	0.66	1.11	ND	1.90	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	50%	YES
SS	70%	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED		1988/11	1991
FACILTY EXPANSION/UPGRADING - ENVIRONMENTAL ASSESSMENT BEING CONDUCTED		1988/11	1991
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE		1988/11	1991
FACILTY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE		1988/11	1991

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NANTICOKE
PLANT : STELCO IND. PARK LAGOON
WORKS NUMBER : 110003371
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 0.50 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : HALDIMAN-NORFOLK, REG. MUN.
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : CENTER CR
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED :

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.14	1.79	0.24	0.22	0.26	0.30	0.27	0.19	0.17	0.21	0.18	0.20	0.35	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	15.0	4.0	8.0	14.0	13.0	13.0	16.0	9.0	35.0	ND	168.0	18.0	28.5	
EFFLUENT (MG/L)	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.3	3.0	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.86	1.05	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	51.0	13.0	18.0	191.0	39.0	48.0	31.0	21.0	230.0	25.0	ND	116.0	71.2	
EFFLUENT (MG/L)	4.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.4	7.8	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	0.58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.28	2.73	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.1	0.6	1.5	9.7	1.4	2.5	1.2	0.8	2.0	3.8	1.6	4.4	2.6	
EFFLUENT (MG/L)	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.4	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.08	0.18	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NANTICOKE
PLANT : TOWNSEND LAGOON
WORKS NUMBER : 110003424
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 0.95 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : HALDIMAN-NORFOLK, REG. MUN.
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : NANTICOKE CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 200

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LAGOON DISCHARGE	ND	ND	ND	4500.00	ND	ND	ND	ND	ND	ND	ND	ND	4500.00	
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	24.4	ND	ND	ND	ND	ND	ND	ND	ND	24.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	68.2	ND	ND	ND	ND	ND	ND	ND	ND	68.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	1.0	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	INSUFFICIENT DATA
SS	25.0 MG/L	INSUFFICIENT DATA
TP	1.0 MG/L	INSUFFICIENT DATA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NANTICOKE
PLANT : WATERFORD LAGOON
WORKS NUMBER : 110001195
TREATMENT : AERATED CELL PLUS LAGOON
: CONTINUOUS DISCHARGE
:
DESIGN CAPACITY : 2.13 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : HALDIMAN-NORFOLK, REG. MUN.
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : NANTICOKE CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,484

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.20	1.51	1.38	1.53	1.38	1.31	1.24	1.19	1.16	1.22	1.08	0.98	1.27	
LAGOON DISCHARGE	37.19	43.66	42.76	45.99	42.88	39.39	38.56	36.82	34.88	37.85	32.30	30.26	38.55	
BOD5														
INFLUENT (MG/L)	172.0	90.0	89.0	98.0	ND	141.0	103.0	106.0	46.0	231.0	90.0	114.0	116.4	
EFFLUENT (MG/L)	15.4	10.1	28.3	8.0	ND	6.6	5.9	7.0	21.9	11.0	9.2	14.4	12.5	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	18.48	15.25	39.05	12.24	ND	8.64	7.31	8.33	25.40	13.42	9.93	14.11	15.88	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	157.0	105.0	107.0	95.0	ND	155.0	97.0	110.0	53.0	126.0	63.0	107.0	106.8	
EFFLUENT (MG/L)	12.1	16.1	29.7	8.6	ND	ND	24.2	24.2	ND	19.5	14.5	11.5	17.8	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	14.52	24.31	40.98	13.15	ND	ND	30.00	28.79	ND	23.79	15.66	11.27	22.61	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.9	6.1	6.9	5.5	ND	6.2	5.4	5.3	5.2	5.4	5.2	5.5	5.6	
EFFLUENT (MG/L)	0.4	0.4	0.5	0.4	ND	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.48	0.60	0.69	0.61	ND	0.13	0.24	0.35	0.34	0.36	0.32	0.29	0.38	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NIAGARA FALLS
PLANT : STAMFORD WPCP
WORKS NUMBER : 120001363
TREATMENT : ROTATING BIOLOGICAL CONTACTOR
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 58.18 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : NIAGARA, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : CHIPPAWA POWER CANAL
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 67,835

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	44.62	56.56	58.88	57.13	53.58	56.07	58.36	61.37	83.80	59.90	57.30	54.40	58.50	
BOD5														
INFLUENT (MG/L)	92.0	71.0	55.0	72.0	66.0	28.0	81.0	97.0	83.0	125.0	74.0	81.0	77.1	
EFFLUENT (MG/L)	14.0	21.0	8.9	15.0	14.0	15.6	12.0	16.0	23.0	19.0	17.7	14.7	15.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	624.68	1187.76	524.03	856.95	750.12	874.69	700.32	981.92	1927.40	1138.10	1014.21	799.68	930.15	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	126.0	110.0	99.0	106.0	123.0	134.0	102.0	122.0	141.0	137.0	122.0	109.0	119.3	
EFFLUENT (MG/L)	21.0	21.0	17.8	19.3	18.0	18.0	17.0	21.0	14.0	23.0	22.5	21.4	19.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	937.02	1187.76	1048.06	1102.60	964.44	1009.26	992.12	1288.77	1173.20	1377.70	1289.25	1164.16	1140.75	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.2	3.4	2.7	3.3	3.7	3.3	3.9	3.8	3.3	2.8	3.2	2.8	3.4	
EFFLUENT (MG/L)	0.8	0.9	0.4	1.0	0.7	0.6	0.8	0.9	0.6	0.5	0.8	0.3	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	35.69	50.90	23.55	57.13	37.50	33.64	46.68	55.23	50.28	29.95	45.84	16.32	40.95	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - HAS NO CRITERIA
SS - HAS NO CRITERIA
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NIAGARA-ON-THE-LAKE
PLANT : NIAGARA-ON-THE-LAKE LAGOON
WORKS NUMBER : 120001238
TREATMENT : AERATED CELL PLUS LAGOON
: CONTINUOUS DISCHARGE
:
DESIGN CAPACITY : 3.84 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : NIAGARA, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 5,210

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.85	3.56	3.31	3.50	3.13	2.72	2.73	2.77	2.80	2.90	2.70	2.50	2.96	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	104.0	66.0	73.0	83.0	85.0	138.0	144.0	82.0	ND	204.0	101.0	171.0	113.7	
EFFLUENT (MG/L)	10.0	8.8	12.0	15.1	16.0	30.5	32.0	42.0	ND	23.0	34.0	61.7	25.9	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	28.50	31.32	39.72	52.85	50.08	82.96	87.36	116.34	ND	66.70	91.80	154.25	76.66	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	148.0	117.0	169.0	91.0	140.0	145.0	153.0	149.0	80.0	245.0	224.0	92.0	146.1	
EFFLUENT (MG/L)	15.0	16.0	25.2	29.0	29.0	70.0	61.0	40.0	3.4	34.0	32.0	17.0	31.0	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	42.75	56.96	83.41	101.50	90.77	190.40	166.53	110.80	9.52	98.60	86.40	42.50	91.76	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.4	3.9	4.4	3.0	4.9	6.3	16.7	5.9	ND	3.9	4.9	7.0	6.0	
EFFLUENT (MG/L)	4.4	3.4	4.4	2.3	2.5	3.4	6.3	3.7	ND	0.3	4.3	6.6	3.8	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	12.54	12.10	14.56	8.05	7.82	9.24	17.19	10.24	ND	0.87	11.61	16.50	11.25	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG, " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NIAGRA-ON-THE-LAKE
PLANT : GARDEN CITY RACEWAY LAGOON
WORKS NUMBER : 120003236
TREATMENT : CONVENTIONAL LAGOON SEASONAL

DESIGN CAPACITY : 0.63 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : NIAGARA, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : DITCH TO SIX MILE CREEK
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 150

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.02	0.03	0.11	0.02	0.03	0.02	0.03	0.03		0.03	0.02	0.02	0.03	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	INSUFFICIENT DATA
SS	40.0 MG/L	INSUFFICIENT DATA
TP	NA	INSUFFICIENT DATA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NORFOLK
PLANT : PORT ROWAN LAGOON
WORKS NUMBER : 110001113
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 0.72 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : HALDIMAN-NORFOLK, REG. MUN.
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : DEDRICH CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 758

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.26	0.28	0.28	0.25	0.23	0.24	0.27	0.24	0.22	0.24	0.26	0.27	0.25	
LAGOON DISCHARGE	ND	ND	ND	74.68	ND	ND	ND	ND	ND	ND	ND	ND	74.68	
BOD5														
INFLUENT (MG/L)	80.7	216.0	295.0	119.0	131.0	90.4	213.0	64.0	135.0	136.0	ND	78.0	141.6	
EFFLUENT (MG/L)	ND	ND	ND	7.8	ND	ND	ND	ND	ND	ND	ND	ND	7.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	1.95	ND	ND	ND	ND	ND	ND	ND	ND	1.95	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	113.0	217.0	172.0	107.0	101.0	133.0	161.0	63.2	157.0	112.0	ND	155.0	135.6	
EFFLUENT (MG/L)	ND	ND	ND	12.5	ND	ND	ND	ND	ND	ND	ND	ND	12.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	3.12	ND	ND	ND	ND	ND	ND	ND	ND	3.13	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.5	6.3	8.5	6.8	5.1	4.8	5.9	6.5	7.5	6.3	ND	7.7	6.4	
EFFLUENT (MG/L)	ND	ND	ND	0.4	ND	ND	ND	ND	ND	ND	ND	ND	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	0.10	ND	ND	ND	ND	ND	ND	ND	ND	0.10	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NORTH DUMFRIES
PLANT : AYR PV WPCP
WORKS NUMBER : 110001943
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 1.18 (1000 M3)

REGION : WEST CENTRAL
DISTRICT :
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : NITH RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,281

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.55	0.58	0.64	0.75	0.75	0.58	0.52	0.56	0.61	0.63	0.63	ND	0.62	
BOD5														
INFLUENT (MG/L)	68.0	70.0	97.0	35.0	79.0	71.0	65.0	83.0	85.0	143.0	114.0	ND	82.7	
EFFLUENT (MG/L)	3.6	4.5	3.7	2.7	8.8	7.8	10.8	6.2	3.7	5.4	4.1	ND	5.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.98	2.61	2.36	2.02	6.60	4.52	5.61	3.47	2.25	3.40	2.58	ND	3.47	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	89.0	96.0	103.0	37.0	95.0	65.0	78.0	81.0	118.0	176.0	173.0	ND	101.0	
EFFLUENT (MG/L)	7.1	11.4	6.1	3.6	8.4	3.2	5.9	4.6	2.8	6.4	4.7	ND	5.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.90	6.61	3.90	2.70	6.30	1.85	3.06	2.57	1.70	4.03	2.96	ND	3.60	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.4	5.1	6.6	5.9	4.4	4.6	4.5	4.7	8.4	8.8	7.5	ND	6.0	
EFFLUENT (MG/L)	0.5	0.2	0.4	0.5	0.5	0.3	0.3	0.4	0.4	0.3	0.4	ND	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.27	0.11	0.25	0.37	0.37	0.17	0.15	0.22	0.24	0.18	0.25	ND	0.25	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ORANGEVILLE
PLANT : ORANGEVILLE WPCP
WORKS NUMBER : 110000542
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
DESIGN CAPACITY : 14.54 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : DUFFERIN
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : CREDIT RIVER
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 16,515

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	8.73	8.57	9.68	10.44	9.24	8.40	7.79	8.01	8.79	8.70	9.97	8.85	8.93	
BOD5														
INFLUENT (MG/L)	206.0	213.0	191.0	186.0	194.0	185.0	174.0	133.0	172.0	172.0	167.0	189.0	181.8	
EFFLUENT (MG/L)	1.7	2.5	3.4	2.9	1.3	1.3	2.7	1.6	1.9	2.0	2.2	3.0	2.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	14.84	21.42	32.91	30.27	12.01	10.92	21.03	12.81	16.70	17.40	21.93	26.55	19.65	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	116.0	125.0	175.0	103.0	128.0	150.0	186.0	192.0	159.0	131.0	167.0	120.0	146.0	
EFFLUENT (MG/L)	3.8	5.2	4.0	5.2	3.9	3.2	2.7	2.3	2.3	2.1	2.7	2.2	3.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	33.17	44.56	38.72	54.28	36.03	26.88	21.03	18.42	20.21	18.27	26.91	19.47	29.47	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.8	6.6	4.5	4.8	5.3	6.4	9.2	3.2	6.6	4.7	4.1	5.3	5.5	
EFFLUENT (MG/L)	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.87	1.71	1.93	2.08	1.84	1.68	0.77	0.80	1.75	0.87	0.99	0.88	1.79	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PALMERSTON
PLANT : PALMERSTON WPCP
WORKS NUMBER : 110001088
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
:
:
DESIGN CAPACITY : 0.68 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : WELLINGTON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : WALLACE DRAIN
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,050

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.78	0.74	0.87	1.06	0.85	0.76	0.67	0.73	0.75	1.07	1.43	1.11	0.90	
BOD5														
INFLUENT (MG/L)	279.0	139.0	122.0	88.0	294.0	133.0	300.0	147.0	373.0	90.0	75.0	144.0	182.0	
EFFLUENT (MG/L)	215.0	84.7	76.6	71.0	102.0	96.2	92.9	142.0	10.1	2.7	3.8	4.2	75.1*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	167.70	62.67	66.64	75.26	86.70	73.11	62.24	103.66	7.57	2.88	5.43	4.66	67.59	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	182.0	189.0	222.0	94.0	320.0	154.0	251.0	164.0	471.0	142.0	91.0	109.0	199.1	
EFFLUENT (MG/L)	159.0	111.0	100.0	79.8	117.0	117.0	89.9	130.0	17.1	10.9	6.9	5.3	78.7*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	124.02	82.14	87.00	84.58	99.45	88.92	60.23	94.90	12.82	11.66	9.86	5.88	70.83	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.6	5.4	4.9	7.9	18.4	6.6	8.7	8.3	7.3	5.1	4.4	6.4	7.4	
EFFLUENT (MG/L)	9.2	5.7	4.0	5.0	5.8	6.6	6.5	7.0	1.8	1.1	0.9	0.3	4.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	7.17	4.21	3.48	5.30	4.93	5.01	4.35	5.11	1.35	1.17	1.28	0.33	4.05	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	NO
SS	25.0 MG/L	NO
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

OPERATIONAL/PROCESS - START-UP DIFFICULTIES BEING CORRECTED
FACILTY EXPANSION/UPGRADING - CONSTRUCTION COMPLETE

START DATE	END DATE	ANTICIPATED COMPLIANCE
1988/09	1988/11	1988/12
1987/05	1988/09	1988/12

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PARIS
PLANT : PARIS WPCP
WORKS NUMBER : 110001097
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 7.04 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : BRANT
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : GRAND RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 4,359

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.40	2.58	2.68	2.60	2.19	2.15	2.16	2.55	2.28	2.17	2.03	1.95	2.31	
BOD5														
INFLUENT (MG/L)	275.0	353.0	301.0	205.0	101.0	176.0	182.0	133.0	169.0	154.0	239.0	105.0	199.4	
EFFLUENT (MG/L)	4.4	4.8	2.9	3.1	1.7	1.4	0.9	2.9	2.5	3.5	2.3	4.2	2.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	10.56	12.38	7.77	8.06	3.72	3.01	1.94	7.39	5.70	7.59	4.66	8.19	6.70	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	236.0	271.0	368.0	200.0	135.0	214.0	162.0	110.0	171.0	194.0	158.0	91.0	192.5	
EFFLUENT (MG/L)	11.8	6.2	8.0	5.8	2.8	5.2	10.9	8.2	7.6	7.8	7.3	7.4	7.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	28.32	15.99	21.44	15.08	6.13	11.18	23.54	20.91	17.32	16.92	14.81	14.43	17.09	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	9.1	8.3	12.6	6.2	6.3	6.6	5.4	5.7	7.7	6.2	8.7	7.4	7.5	
EFFLUENT (MG/L)	0.7	0.3	0.7	0.5	1.0	0.9	0.4	0.7	0.9	0.9	0.8	0.6	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	1.68	0.77	1.87	1.30	2.19	1.93	0.86	1.78	2.05	1.95	1.62	1.17	1.62	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
M - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PORT COLBORNE
PLANT : SEAWAY WPCP
WORKS NUMBER : 120001906
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 15.00 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : NIAGARA, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : WELLAND CANAL
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 15,825

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	7.60	11.47	10.61	10.62	9.67	8.37	11.42	10.16	8.67	10.47	11.35	9.47	9.99	
BOD5														
INFLUENT (MG/L)	95.0	58.0	149.0	146.0	218.0	131.0	93.0	110.0	125.0	85.0	95.0	135.0	120.0	
EFFLUENT (MG/L)	14.9	10.0	15.4	13.8	39.5	11.2	16.6	16.1	17.3	13.7	21.3	18.1	17.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	113.24	114.70	163.39	146.55	381.96	93.74	189.57	163.57	149.99	143.43	241.75	171.40	172.83	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	201.0	138.0	195.0	307.0	265.0	262.0	184.0	183.0	233.0	177.0	200.0	184.0	210.8	
EFFLUENT (MG/L)	29.4	21.2	26.3	21.9	41.8	7.9	5.0	6.1	4.5	7.4	9.3	5.0	15.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	223.44	243.16	279.04	232.57	404.20	66.12	57.10	61.97	39.01	77.47	105.55	47.35	154.85	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	10.7	7.8	10.2	8.5	11.9	9.4	8.0	8.7	11.8	8.8	5.8	7.4	9.1	
EFFLUENT (MG/L)	0.6	0.6	0.7	1.2*	1.5*	0.5	0.7	0.6	0.6	0.7	0.5	0.4	0.7	2
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	4.56	6.88	7.42	12.74	14.50	4.18	7.99	6.09	5.20	7.32	5.67	3.78	6.99	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

START DATE	END DATE	ANTICIPATED COMPLIANCE

OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED

1986 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PORT COLBORNE
PLANT : WEST PLANT (EXCESS Q FROM SEAWAY ONLY)
WORKS NUMBER : 120001336
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 6.13 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : NIAGARA, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : WELLAND CANAL
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 10,800

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
TOTAL PHOSPHORUS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	NO DISCHARGE
SS	25.0 MG/L	NO DISCHARGE
TP	1.0 MG/L	NO DISCHARGE

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : SHELBURNE
PLANT : SHELBURNE WPCP
WORKS NUMBER : 110000659
TREATMENT : OXIDATION DITCH
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
DESIGN CAPACITY : 2.04 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : DUFFERIN
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BOYNE RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.37	1.42	1.70	1.84	1.72	1.28	1.30	1.25	1.25	1.33	1.59	1.32	1.45	
BOD5														
INFLUENT (MG/L)	235.0	193.0	232.0	229.0	231.0	279.0	293.0	271.0	249.0	279.0	240.0	225.0	246.3	
EFFLUENT (MG/L)	9.0	12.1	13.6	3.8	9.3	7.4	11.8	10.4	13.0	11.3	3.0	5.9	9.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	12.33	17.18	23.12	6.99	15.99	9.47	15.34	13.00	16.25	15.02	4.77	7.78	13.34	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	168.0	167.0	147.0	142.0	162.0	136.0	214.0	223.0	187.0	218.0	209.0	213.0	182.2	
EFFLUENT (MG/L)	12.3	29.2	24.2	6.8	4.8	4.0	4.4	6.5	5.7	5.5	5.6	5.3	9.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	16.85	41.46	41.14	12.51	8.25	5.12	5.72	8.12	7.12	7.31	8.90	6.99	13.78	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.4	8.9	5.5	4.8	5.7	4.7	7.4	5.3	5.9	5.5	7.2	5.5	6.1	
EFFLUENT (MG/L)	0.4	1.1*	1.0	0.4	0.5	0.4	0.6	0.8	0.8	0.6	0.3	0.2	0.6	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.54	1.56	1.70	0.73	0.86	0.51	0.78	1.00	1.00	0.79	0.47	0.26	0.87	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

OPERATIONAL/PROCESS - START-UP DIFFICULTIES BEING CORRECTED
FACILTY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED
NO ACTION - MARGINAL FAILURE-MONITORING LEVEL OF FAILED PARAMETER CLOSELY

START DATE	END DATE	ANTICIPATED COMPLIANCE
1988/08	1988/10	1988/11
1989/03		

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : SIMCOE
PLANT : SIMCOE WPCP
WORKS NUMBER : 110000677
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
DESIGN CAPACITY : 15.45 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : HALDIMAN-NORFOLK, REG. MUN.
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : LYNN RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 12,600

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	7.74	8.79	9.02	8.35	7.95	8.07	8.98	9.00	8.31	8.04	9.11	7.99	8.45	
BOD5														
INFLUENT (MG/L)	155.0	206.0	196.0	231.0	259.0	130.0	243.0	132.0	273.0	177.0	444.0	164.0	217.5	
EFFLUENT (MG/L)	1.4	4.1	3.8	4.4	1.6	1.9	2.8	5.5	1.9	3.3	1.8	3.0	3.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	10.83	36.03	34.27	36.74	12.72	15.33	25.14	49.50	15.78	26.53	16.39	23.97	25.35	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	136.0	207.0	221.0	240.0	264.0	160.0	295.0	90.0	254.0	157.0	227.0	129.0	198.3	
EFFLUENT (MG/L)	1.6	3.0	2.7	2.3	2.1	ND	ND	ND	4.6	4.5	4.6	5.5	3.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	12.38	26.37	24.35	19.20	16.69	ND	ND	ND	38.22	36.18	41.90	43.94	28.73	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.3	7.0	7.6	8.6	7.0	5.4	8.6	5.5	6.3	6.4	8.1	6.0	6.8	
EFFLUENT (MG/L)	0.2	0.2	0.5	0.5	0.2	0.2	0.5	1.3*	0.4	1.1*	0.4	0.3	0.5	2
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	1.54	1.75	4.51	4.17	1.59	1.61	4.49	11.70	3.32	8.84	3.64	2.39	4.23	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

START DATE	END DATE	ANTICIPATED COMPLIANCE

NO ACTION - MARGINAL FAILURE-MONITORING LEVEL OF FAILED PARAMETER CLOSELY

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : SOUTH DUMFRIES
PLANT : ST GEORGE PV WPCP
WORKS NUMBER : 110003415
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
DESIGN CAPACITY : 1.06 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : BRANT
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : FAIRCHILD CREEK (W. BR)
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.38	0.45	0.42	0.44	0.41	0.38	0.38	0.44	0.45	0.45	0.46	0.50	0.43	
BOD5														
INFLUENT (MG/L)	99.0	88.0	106.0	155.0	20.0	160.0	160.0	106.0	133.0	109.0	87.0	0.4	102.0	
EFFLUENT (MG/L)	0.8	1.9	2.6	2.1	0.9	1.7	1.0	2.9	1.9	2.5	0.6	5.3	2.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.30	0.85	1.09	0.92	0.36	0.64	0.38	1.27	0.85	1.12	0.27	2.65	0.86	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	159.0	111.0	217.0	187.0	197.0	236.0	178.0	180.0	167.0	205.0	117.0	15.0	164.1	
EFFLUENT (MG/L)	3.5	2.3	2.4	1.6	0.8	1.2	1.9	1.3	1.9	2.1	ND	3.2	2.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.33	1.03	1.00	0.70	0.32	0.45	0.72	0.57	0.85	0.94	ND	1.60	0.86	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.6	5.1	8.7	8.6	6.0	8.4	8.0	7.9	8.4	8.2	5.9	3.6	7.2	
EFFLUENT (MG/L)	0.4	0.8	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.5	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.15	0.36	0.12	0.17	0.16	0.15	0.15	0.17	0.18	0.13	0.13	0.25	0.17	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ST CATHARINES
PLANT : PORT DALHOUSIE WPCP
WORKS NUMBER : 120001327
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 61.37 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : NIAGARA, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 60,430

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	38.24	47.58	43.37	44.73	41.50	39.81	46.41	46.82	44.80	44.50	45.50	41.10	43.70	
BOD5														
INFLUENT (MG/L)	73.0	93.0	121.0	100.0	171.0	151.0	111.0	24.0	87.0	82.0	118.0	219.0	112.5	
EFFLUENT (MG/L)	8.0	12.8	12.2	12.4	11.8	10.0	13.0	4.2	6.2	12.3	8.9	8.2	10.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	305.92	609.02	529.11	554.65	489.70	398.10	603.33	196.64	277.76	547.35	404.95	337.02	437.00	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	105.0	120.0	128.0	120.0	115.0	129.0	125.0	107.0	111.0	130.0	120.0	129.0	119.9	
EFFLUENT (MG/L)	9.8	11.6	8.0	10.6	12.3	8.4	7.6	6.5	7.3	8.8	10.1	8.6	9.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	374.75	551.92	346.96	474.13	510.45	334.40	352.71	304.33	327.04	391.60	459.55	353.46	397.67	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.9	3.2	4.2	3.8	3.9	4.1	2.7	3.1	3.5	2.2	4.1	3.1	3.5	
EFFLUENT (MG/L)	0.4	0.5	0.4	0.5	ND	0.8	0.8	0.5	0.5	0.6	0.5	0.9	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	15.29	23.79	17.34	22.36	ND	31.84	37.12	23.41	22.40	26.70	22.75	36.99	26.22	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
M - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 CERTIFICATE OF APPROVAL ASSESSMENT

MUNICIPALITY : ST CATHARINES
PLANT : PORT WELLER WPCP
WORKS NUMBER : 120001318
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 37.50 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : NIAGARA, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : PORT WELLER HARBOUR
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 75,690

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	36.71	49.50	40.50	42.05	35.46	32.23	36.55	35.64	34.50	36.90	40.50	39.00	38.30	
BOD5														
INFLUENT (MG/L)	125.0	70.0	69.0	73.0	94.0	109.0	135.0	108.0	56.0	87.0	76.0	112.0	92.8	
EFFLUENT (MG/L)	22.7	19.8	12.2	18.2	26.9	11.0	16.0	14.0	9.3	8.5	ND	ND	15.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	833.31	980.10	494.10	765.31	953.87	354.53	584.80	498.96	320.85	313.65	ND	ND	608.97	
LOADING LIMIT (KG/D)														
SUSPENDED SOLIDS														
INFLUENT (MG/L)	285.0	264.0	183.0	202.0	281.0	295.0	232.0	228.0	221.0	142.0	167.0	241.0	228.4	
EFFLUENT (MG/L)	12.2	14.7	13.8	13.0	11.0	11.7	18.6	13.6	14.3	6.8	12.8	17.7	13.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	447.86	727.65	558.90	546.65	390.06	377.09	679.83	484.70	493.35	250.92	518.40	690.30	513.22	
LOADING LIMIT (KG/D)														
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	9.7	7.7	4.0	5.2	6.9	6.5	6.6	4.2	5.9	4.2	5.2	6.8	6.1	
EFFLUENT (MG/L)	1.0	0.6	0.5	1.0	0.8	0.7	0.6	0.3	0.5	0.4	0.5	0.8	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	36.71	29.70	20.25	42.05	28.36	22.56	21.93	10.69	17.25	14.76	20.25	31.20	22.98	
LOADING LIMIT (KG/D)														

SUMMARY

PARM	CRITERIA	LOADING	COMPLIES WITH CONC	LOADING
BOD	25.0 MG/L	NA	YES	NA
SS	25.0 MG/L	NA	YES	NA
TP	1.0 MG/L	NA	YES	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ST CATHARINES
PLANT : PORT WELLER WPCP
WORKS NUMBER : 120001318
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 37.50 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : NIAGARA, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : PORT WELLER HARBOUR
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 75,690

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	36.71	49.50	40.50	42.05	35.46	32.23	36.55	35.64	34.50	36.90	40.50	39.00	38.30	
BOD5														
INFLUENT (MG/L)	125.0	70.0	69.0	73.0	94.0	109.0	135.0	108.0	56.0	87.0	76.0	112.0	92.8	
EFFLUENT (MG/L)	22.7	19.8	12.2	18.2	26.9	11.0	16.0	14.0	9.3	8.5	ND	ND	15.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	833.31	980.10	494.10	765.31	953.87	354.53	584.80	498.96	320.85	313.65	ND	ND	608.97	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	285.0	264.0	183.0	202.0	281.0	295.0	232.0	228.0	221.0	142.0	167.0	241.0	228.4	
EFFLUENT (MG/L)	12.2	14.7	13.8	13.0	11.0	11.7	18.6	13.6	14.3	6.8	12.8	17.7	13.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	447.86	727.65	558.90	546.65	390.06	377.09	679.83	484.70	493.35	250.92	518.40	690.30	513.22	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	9.7	7.7	4.0	5.2	6.9	6.5	6.6	4.2	5.9	4.2	5.2	6.8	6.1	
EFFLUENT (MG/L)	1.0	0.6	0.5	1.0	0.8	0.7	0.6	0.3	0.5	0.4	0.5	0.8	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	36.71	29.70	20.25	42.05	28.36	22.56	21.93	10.69	17.25	14.76	20.25	31.20	22.98	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WATERLOO
PLANT : WATERLOO WPCP
WORKS NUMBER : 110000793
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 45.46 (1000 M3)

REGION : WEST CENTRAL
DISTRICT :
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : GRAND RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 66,627

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	46.95	46.59	52.25	55.06	47.04	42.63	39.02	40.68	42.93	45.42	42.89	38.81	45.02	
BOD5														
INFLUENT (MG/L)	170.0	112.0	115.0	98.0	90.0	108.0	125.0	160.0	391.0	243.0	211.0	255.0	173.2	
EFFLUENT (MG/L)	15.0	8.0	9.0	9.0	7.0	10.0	9.0	11.0	13.0	17.0	11.0	14.0	11.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	704.25	372.72	470.25	495.54	329.28	426.30	351.18	447.48	558.09	772.14	471.79	543.34	499.72	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	420.0	230.0	270.0	240.0	260.0	254.0	264.0	530.0	991.0	624.0	424.0	474.0	415.1	
EFFLUENT (MG/L)	27.0	18.0	12.0	14.0	9.0	15.0	10.0	15.0	35.0	56.0	23.0	27.0	21.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1267.65	838.62	627.00	770.84	423.36	639.45	390.20	610.20	1502.55	2543.52	986.47	1047.87	981.44	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.2	4.6	4.2	3.8	4.2	4.0	4.4	8.2	8.8	7.6	6.5	6.7	5.8	
EFFLUENT (MG/L)	1.2*	0.8	0.6	0.6	0.4	0.8	0.6	0.6	1.0	1.4*	1.3*	1.1*	0.9	4
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	56.34	37.27	31.35	33.03	18.81	34.10	23.41	24.40	42.93	63.58	55.75	42.69	40.52	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - CONSTRUCTION INITIATED			1989/06

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WELLAND
PLANT : WELLAND WPCP
WORKS NUMBER : 120001309
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 45.46 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : NIAGARA, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : WELLAND RIVER
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 47,205

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	28.05	39.75	37.10	32.47	29.28	28.84	34.83	32.80	29.50	35.37	38.07	32.10	33.18	
BOD5														
INFLUENT (MG/L)	60.0	90.0	69.0	56.0	62.0	64.0	59.0	77.0	88.0	66.0	55.0	34.0	65.0	
EFFLUENT (MG/L)	5.8	10.9	10.1	7.9	12.7	7.9	5.3	7.5	6.6	11.6	19.0	16.6	10.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	162.69	433.27	374.71	256.51	371.85	227.83	184.59	246.00	194.70	410.29	723.33	532.86	338.44	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	144.0	133.0	181.0	200.0	174.0	124.0	83.0	90.0	120.0	135.0	95.0	104.0	131.9	
EFFLUENT (MG/L)	12.8	13.2	11.7	11.7	17.2	9.5	5.9	6.3	6.8	6.9	9.1	12.4	10.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	359.04	524.70	434.07	379.89	503.61	273.98	205.49	206.64	200.60	244.05	346.43	398.04	341.75	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.7	4.1	5.1	5.6	3.5	4.6	3.6	3.6	3.7	3.5	3.8	3.8	4.1	
EFFLUENT (MG/L)	0.3	0.3	0.3	0.3	0.4	0.5	0.6	0.5	0.3	0.3	0.3	0.4	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	8.41	11.92	11.13	9.74	11.71	14.42	20.89	16.40	8.85	10.61	11.42	12.84	13.27	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
M - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1986 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WELLESLEY
PLANT : WELLESLEY WPCP
WORKS NUMBER : 110001578
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 0.50 (1000 M3)

REGION : WEST CENTRAL
DISTRICT :
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : NITH RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 950

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.59	0.62	0.73	0.69	0.54	0.42	0.46	0.48	0.34	0.44	0.60	0.41	0.53	
BOD5														
INFLUENT (MG/L)	119.0	76.0	278.0	141.0	85.0	147.0	111.0	92.0	147.0	261.0	58.0	135.0	137.5	
EFFLUENT (MG/L)	3.1	2.1	2.7	3.1	3.1	0.8	1.5	1.5	2.0	1.5	1.2	8.4	2.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.82	1.30	1.97	2.13	1.67	0.33	0.69	0.72	0.68	0.66	0.72	3.44	1.38	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	160.0	109.0	110.0	129.0	149.0	176.0	153.0	165.0	185.0	118.0	101.0	136.0	140.9	
EFFLUENT (MG/L)	3.6	3.9	5.7	2.9	4.0	3.0	4.0	4.0	6.0	5.0	5.0	4.8	4.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2.12	2.41	4.16	2.00	2.16	1.26	1.84	1.92	2.04	2.20	3.00	1.96	2.28	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.2	3.9	4.8	5.5	4.6	5.1	6.4	5.6	5.9	3.7	2.2	5.4	4.8	
EFFLUENT (MG/L)	0.5	0.3	0.5	0.3	0.5	0.7	0.4	0.2	0.4	0.5	0.4	0.7	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.29	0.18	0.36	0.20	0.27	0.29	0.18	0.09	0.13	0.22	0.24	0.28	0.27	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WEST LINCOLN
PLANT : SMITHVILLE LAGOON
WORKS NUMBER : 120001229
TREATMENT : CONVENTIONAL LAGOON SEASONAL

DESIGN CAPACITY : 1.56 (1000 M3)

REGION : WEST CENTRAL
DISTRICT : NIAGARA, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : TWENTY MILE CREEK
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,980

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.85	1.23	1.12	0.95	0.80	0.64	0.80	0.63	0.83	0.90	1.06	0.89	0.89	
LAGOON DISCHARGE	45.46	45.46	200.00	120.00	ND	ND	ND	ND	ND	ND	117.60	40.91	94.91	
BOD5														
INFLUENT (MG/L)	109.0	87.0	127.0	139.0	140.0	231.0	192.0	148.0	183.0	83.0	171.0	225.0	152.9	
EFFLUENT (MG/L)	20.7	16.1	22.5	45.6	ND	ND	ND	ND	ND	ND	18.8	24.2	24.7	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	17.59	19.80	25.20	43.32	ND	ND	ND	ND	ND	ND	19.92	21.53	21.98	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	140.0	125.0	216.0	162.0	189.0	236.0	540.0	157.0	197.0	126.0	74.0	198.0	196.7	
EFFLUENT (MG/L)	67.3	34.1	41.5	113.0	ND	ND	ND	ND	ND	ND	28.2	56.0	56.7*	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	57.20	41.94	46.48	107.35	ND	ND	ND	ND	ND	ND	29.89	49.84	50.46	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.4	5.9	6.5	7.3	6.5	8.8	7.2	7.4	6.3	1.8	8.1	9.8	6.8	
EFFLUENT (MG/L)	3.0	3.3	3.3	2.7	ND	ND	ND	ND	ND	ND	1.8	4.3	3.1	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	2.55	4.05	3.69	2.56	ND	ND	ND	ND	ND	ND	1.90	3.82	2.76	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	NO
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - PHASING OUT EXISTING FACILITY			

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WILMOT
PLANT : BADEN WPCP
WORKS NUMBER : 110001710
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 0.92 (1000 M3)

REGION : WEST CENTRAL
DISTRICT :
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BADEN CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,152

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.55	0.51	0.69	0.77	0.67	0.58	0.57	0.58	0.63	0.75	0.88	0.71	0.66	
BOD5														
INFLUENT (MG/L)	326.0	175.0	536.0	312.0	300.0	258.0	229.0	316.0	310.0	644.0	536.0	220.0	346.8	
EFFLUENT (MG/L)	8.9	2.2	8.1	8.8	15.5	3.6	3.8	2.6	7.4	12.7	60.5	2.8	11.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	4.89	1.12	5.58	6.77	10.38	2.08	2.16	1.50	4.66	9.52	53.24	1.98	7.52	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	223.0	232.0	335.0	378.0	346.0	411.0	242.0	262.0	490.0	237.0	239.0	290.0	307.1	
EFFLUENT (MG/L)	11.6	6.6	7.4	16.1	40.5	6.3	4.3	5.3	11.6	9.3	22.7	2.9	12.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	6.38	3.36	5.10	12.39	27.13	3.65	2.45	3.07	7.30	6.97	19.97	2.05	7.99	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	10.9	12.5	14.9	9.1	7.9	10.9	8.5	13.8	13.3	10.1	9.9	9.3	10.9	
EFFLUENT (MG/L)	0.8	0.5	0.8	0.6	1.4M	0.4	0.2	0.4	0.5	0.8	1.0	0.4	0.7	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.44	0.25	0.55	0.46	0.93	0.23	0.11	0.23	0.31	0.60	0.88	0.28	0.46	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
M - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

INFLUENT SEWAGE - ENFORCING SEWER USE BYLAW

START DATE	END DATE	ANTICIPATED COMPLIANCE
1988/06/01		

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WILMOT
PLANT : NEW HAMBURG LAGOON
WORKS NUMBER : 110000506
TREATMENT : AERATED CELL PLUS LAGOON
: EFFLUENT POLISHING
: CONTINUOUS DISCHARGE
DESIGN CAPACITY : 2.72 (1000 M3)

REGION : WEST CENTRAL
DISTRICT :
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : NITH RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,978

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.33	1.37	1.77	1.74	1.44	1.20	1.37	1.19	1.26	1.65	2.03	1.40	1.48	
LAGOON DISCHARGE	ND	ND	45.75	34.14	48.93	25.81	17.49	33.81	12.57	56.22	73.87	27.45	37.60	
BOD5														
INFLUENT (MG/L)	249.0	75.0	125.0	180.0	130.0	139.0	250.0	102.0	239.0	77.0	115.0	104.0	148.8	
EFFLUENT (MG/L)	ND	ND	22.5	0.8	2.1	1.6	3.2	3.2	1.3	5.1	8.9	ND	5.4	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	39.82	1.39	3.02	1.92	4.38	3.80	1.63	8.41	18.06	ND	7.99	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	284.0	169.0	178.0	134.0	201.0	119.0	259.0	184.0	334.0	141.0	109.0	123.0	186.3	
EFFLUENT (MG/L)	ND	ND	13.1	2.1	1.1	2.1	2.5	4.2	4.7	2.2	1.8	ND	3.8	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	23.18	3.65	1.58	2.52	3.42	4.99	5.92	3.63	3.65	ND	5.62	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	14.6	9.1	13.6	7.7	9.5	9.4	10.5	8.7	12.9	5.8	8.3	9.1	9.9	
EFFLUENT (MG/L)	ND	ND	0.9	0.4	0.3	0.4	0.6	0.5	0.7	0.7	0.6	ND	0.6	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	1.52	0.69	0.43	0.48	0.82	0.59	0.88	1.15	1.21	ND	0.89	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 CERTIFICATE OF APPROVAL ASSESSMENT

MUNICIPALITY : WOOLWICH
PLANT : ELMIRA WPCP (COMBINED FLOW)
WORKS NUMBER : 110000150
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 4.54 (1000 M3)

REGION : WEST CENTRAL
DISTRICT :
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : CANAGAGIGUE CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 7,090

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.51	3.67	5.06	5.79	5.38	5.04	2.82	4.83	5.08	5.10	6.02	4.35	4.72	
BOD5														
INFLUENT (MG/L)	279.0	292.0	271.0	187.0	198.0	195.0	281.0	166.0	180.0	192.0	168.0	234.0	220.3	
EFFLUENT (MG/L)	6.7	6.4	2.8	3.4	4.2	2.3	6.4	2.2	4.0	3.2	4.2	3.9	4.1	
CONCENTRATION LIMIT (MG/L)													7.5	
LOADING (KG/D)	23.51	23.48	14.16	19.68	22.59	11.59	18.04	10.62	20.32	16.32	25.28	16.96	19.35	
LOADING LIMIT (KG/D)													34.02	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	251.0	236.0	251.0	231.0	333.0	302.0	291.0	274.0	229.0	278.0	149.0	234.0	254.9	
EFFLUENT (MG/L)	16.9	14.7	11.4	13.4	17.1	12.8	12.9	16.4	13.0	11.5	8.1	7.8	13.0	
CONCENTRATION LIMIT (MG/L)													15.0	
LOADING (KG/D)	59.31	53.94	57.68	77.58	91.99	64.51	36.37	79.21	66.04	58.65	48.76	33.93	61.36	
LOADING LIMIT (KG/D)													68.04	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.3	7.1	5.6	7.0	5.9	5.5	20.5	2.9	8.4	6.1	8.5	5.2	7.4	
EFFLUENT (MG/L)	0.6	0.5	0.4	0.7	0.5	0.6	1.4	0.7	1.9	0.9	0.4	0.3	0.7	
CONCENTRATION LIMIT (MG/L)													1.0	
LOADING (KG/D)	2.10	1.83	2.02	4.05	2.69	3.02	3.94	3.38	9.65	4.59	2.40	1.30	3.30	
LOADING LIMIT (KG/D)													4.53	

SUMMARY

PARM	CRITERIA	LOADING	COMPLIES WITH CONC	LOADING
BOD	7.5 MG/L	34.02 KG/D	YES	YES
SS	15.0 MG/L	68.04 KG/D	YES	YES
TP	1.0 MG/L	4.53 KG/D	YES	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED ANNUALLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

START DATE	END DATE	ANTICIPATED COMPLIANCE
		1989

INFLUENT SEWAGE - ENFORCING SEWER USE BYLAW

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WOOLWICH
PLANT : ELMIRA WPCP (COMBINED FLOW)
WORKS NUMBER : 110000150
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 4.54 (1000 M3)

REGION : WEST CENTRAL
DISIRICT :
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : CANAGAGIGUE CREEK
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 7,090

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.51	3.67	5.06	5.79	5.38	5.04	2.82	4.83	5.08	5.10	6.02	4.35	4.72	
BOD5														
INFLUENT (MG/L)	279.0	292.0	271.0	187.0	198.0	195.0	281.0	166.0	180.0	192.0	168.0	234.0	220.3	
EFFLUENT (MG/L)	6.7	6.4	2.8	3.4	4.2	2.3	6.4	2.2	4.0	3.2	4.2	3.9	4.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	23.51	23.48	14.16	19.68	22.59	11.59	18.04	10.62	20.32	16.32	25.28	16.96	19.35	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	251.0	236.0	251.0	231.0	333.0	302.0	291.0	274.0	229.0	278.0	149.0	234.0	254.9	
EFFLUENT (MG/L)	16.9	14.7	11.4	13.4	17.1	12.8	12.9	16.4	13.0	11.5	8.1	7.8	13.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	59.31	53.94	57.68	77.58	91.99	64.51	36.37	79.21	66.04	58.65	48.76	33.93	61.36	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.3	7.1	5.6	7.0	5.9	5.5	20.5	2.9	8.4	6.1	8.5	5.2	7.4	
EFFLUENT (MG/L)	0.6	0.5	0.4	0.7	0.5	0.6	1.4*	0.7	1.9*	0.9	0.4	0.3	0.7	2
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	2.10	1.83	2.02	4.05	2.69	3.02	3.94	3.38	9.65	4.59	2.40	1.30	3.30	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

START DATE	END DATE	ANTICIPATED COMPLIANCE
		1989

INFLUENT SEWAGE - ENFORCING SEWER USE BYLAW

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WOOLWICH
PLANT : ST.JACOBS PV WPCP
WORKS NUMBER : 110001211
TREATMENT : OXIDATION DITCH
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 0.95 (1000 M3)

REGION : WEST CENTRAL
DISTRICT :
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : CONESTOGO RIVER
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,266

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.81	0.81	0.85	1.03	0.70	0.58	0.54	0.58	0.54	0.75	0.96	0.76	0.74	
BOD5														
INFLUENT (MG/L)	118.0	156.0	94.0	171.0	312.0	291.0	176.0	280.0	120.0	665.0	195.0	130.0	225.7	
EFFLUENT (MG/L)	3.2	3.1	2.1	2.7	3.3	10.7	12.7	12.1	44.2	31.7	22.1	5.5	12.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2.59	2.51	1.78	2.78	2.31	6.20	6.85	7.01	23.86	23.77	21.21	4.18	9.47	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	155.0	199.0	151.0	190.0	180.0	249.0	308.0	278.0	312.0	343.0	266.0	218.0	237.4	
EFFLUENT (MG/L)	9.4	12.2	9.5	11.7	16.4	38.8	28.2	63.4	29.0	74.1	39.6	12.8	28.8*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	7.61	9.88	8.07	12.05	11.48	22.50	15.22	36.77	15.66	55.57	38.01	9.72	21.31	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.9	4.9	5.5	4.5	5.0	4.9	6.2	10.5	6.2	6.4	5.5	5.3	6.0	
EFFLUENT (MG/L)	0.5	0.5	0.6	0.4	0.6	0.9	1.5*	1.8*	1.1*	0.9	0.6	0.6	0.8	3
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.40	0.40	0.51	0.41	0.42	0.52	0.81	1.04	0.59	0.67	0.57	0.45	0.59	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	NO
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

START DATE	END DATE	ANTICIPATED COMPLIANCE
		1991/01/01

INFLUENT SEWAGE - ENFORCING SEWER USE BYLAW

Central Region

Ministry of the Environment

Ontario

Central Region ③

Ministry of the Environment
Ontario

REGIONAL OFFICE

Toronto
7 Overlea Blvd.
M4E 1A8
(416) 424-3000

DISTRICT OFFICES

Barrie
12 Fairview Road
L4N 4P3
(705) 726-1730

Halton-Peel
1226 White Oaks Blvd.
Oakville
L6H 2B9
(416) 844-5747

Metro Toronto East
7 Overlea Blvd.
M4E 1A8
(416) 424-3008

Metro Toronto West
7 Overlea Blvd.
M4E 1A8
(416) 424-3007

Muskoka-Haliburton
Gravenhurst Plaza
General Delivery
P0C 1G0
(705) 687-3408

Peterborough
139 George St. North
K9J 3G6
(705) 743-2972

York-Durham
7 Overlea Blvd.
M4E 1A8
(416) 424-3009

CENTRAL SUMMARY - 1988

TREATMENT TYPE	NUMBER			DESIGN CAPACITY (1000M3)		
	MIN	MUN	TOT	MINISTRY	MUNICIPAL	TOTAL
ROTATING BIOLOGICAL CONTACTOR	0	1	1	0.00	93.19	93.19
CONVENTIONAL ACTIVATED SLUDGE	3	24	27	399.13	2,009.51	2,408.65
CONTACT STABILIZATION	1	2	3	1.04	4.50	5.54
EXTENDED AERATION	13	12	25	38.25	34.14	72.39
HIGH RATE	0	1	1	0.00	9.09	9.09
OXIDATION DITCH	3	0	3	2.78	0.00	2.78
COMMUNAL SEPTIC TANK	0	1	1	0.00	0.09	0.09
CONVENTIONAL LAGOON CONTINUOUS	0	4	4	0.00	19.14	19.14
CONVENTIONAL LAGOON SEASONAL	1	7	8	0.58	11.25	11.83
LAGOON AND SPRAY	1	0	1	0.61	0.00	0.61
AERATED CELL PLUS LAGOON	0	2	2	0.00	4.91	4.91
EXFILTRATION LAGOON	1	0	1	1.36	0.00	1.36
TOTALS	23	54	77	443.78	2,185.84	2,629.62

1000M3/D: THOUSANDS OF CUBIC METERS PER DAY
ADF : AVERAGE DAILY FLOW

CENTRAL SUMMARY - 1988

TREATMENT TYPE	NUMBER			ANNUAL ADF (1000M3)		
	MIN	MUN	TOT	MINISTRY	MUNICIPAL	TOTAL
ROTATING BIOLOGICAL CONTACTOR	0	1	1	0.00	63.73	63.73
CONVENTIONAL ACTIVATED SLUDGE	3	24	27	340.80	1,834.11	2,174.91
CONTACT STABILIZATION	1	2	3	0.73	3.80	4.53
EXTENDED AERATION	13	12	25	15.18	15.70	30.88
HIGH RATE	0	1	1	0.00	4.45	4.45
OXIDATION DITCH	3	0	3	2.19	0.00	2.19
COMMUNAL SEPTIC TANK	0	1	1	0.00	0.07	0.07
CONVENTIONAL LAGOON CONTINUOUS	0	4	4	0.00	15.70	15.70
CONVENTIONAL LAGOON SEASONAL	1	7	8	0.81	7.72	8.53
LAGOON AND SPRAY	1	0	1	0.25	0.00	0.25
AERATED CELL PLUS LAGOON	0	2	2	0.00	4.20	4.20
EXFILTRATION LAGOON	1	0	1	0.77	0.00	0.77
TOTALS	23	54	77	360.73	1,949.48	2,310.21

1000M3/D: THOUSANDS OF CUBIC METERS PER DAY
ADF : AVERAGE DAILY FLOW

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ALLISTON
PLANT : ALLISTON WPCP
WORKS NUMBER : 110001220
TREATMENT : EXTENDED AERATION
:
:
DESIGN CAPACITY : 3.50 (1000 M3)

REGION : CENTRAL
DISTRICT : SIMCOE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BOYNE RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 4,674

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.07	3.08	3.27	3.16	3.20	3.31	3.10	3.59	3.45	3.25	3.56	3.08	3.26	
BOD5														
INFLUENT (MG/L)	140.5	142.5	164.0	127.5	120.5	180.0	155.5	99.5	96.5	249.5	156.5	236.5	155.8	
EFFLUENT (MG/L)	12.9	10.8	9.4	6.4	8.0	4.4	16.5	12.6	17.4	11.7	23.0	13.6	12.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	39.60	33.26	30.73	20.22	25.60	14.56	51.15	45.23	60.03	38.02	81.88	41.88	39.77	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	106.5	169.5	190.0	153.5	139.5	239.5	171.0	117.5	163.0	156.5	98.0	110.0	151.2	
EFFLUENT (MG/L)	16.4	13.8	10.4	10.4	21.3	7.9	12.7	23.9	23.1	23.5	23.0	21.7	17.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	50.34	42.50	34.00	32.86	68.16	26.14	39.37	85.80	79.69	76.37	81.88	66.83	56.40	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.8	9.4	8.5	13.5	6.6	10.6	9.4	12.7	11.1	6.8	9.1	9.0	9.5	
EFFLUENT (MG/L)	4.5	4.9	7.8	4.9	2.8	8.2	6.6	5.4	6.1	3.5	6.0	6.1	5.6	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	13.81	15.09	25.50	15.48	8.96	27.14	20.46	19.38	21.04	11.37	21.36	18.78	18.26	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ANSON HINDON MINDEN
PLANT : MINDEN WPCP
WORKS NUMBER : 110002390
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
DESIGN CAPACITY : 0.94 (1000 M3)

REGION : CENTRAL
DISTRICT : HALLIBURTON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : GULL RIVER
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 984

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.57	0.61	0.62	0.78	0.76	0.78	0.68	0.59	0.53	0.54	0.58	0.56	0.63	
BOD5														
INFLUENT (MG/L)	144.0	104.0	116.0	85.5	68.0	156.0	113.0	63.0	ND	78.0	135.0	120.0	107.5	
EFFLUENT (MG/L)	2.4	1.9	2.4	ND	1.9	2.1	4.6	2.5	ND	1.5	3.2	1.1	2.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.36	1.15	1.48	ND	1.44	1.63	3.12	1.47	ND	0.81	1.85	0.61	1.51	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	160.5	118.0	146.5	104.0	108.5	274.5	151.5	39.0	ND	115.0	144.5	208.0	142.7	
EFFLUENT (MG/L)	0.5	1.5	1.3	1.4	1.1	3.6	2.2	3.9	ND		0.8	2.9	1.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.28	0.91	0.80	1.09	0.83	2.80	1.49	2.30	ND		0.46	1.62	1.07	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.3	5.9	6.7	3.9	2.9	6.2	4.8	5.2	ND	4.6	5.7	6.5	5.2	
EFFLUENT (MG/L)	0.2	0.2	0.3	0.2	ND	0.1	0.5	0.2	ND	0.3	0.2	0.1	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.11	0.12	0.18	0.15	ND	0.07	0.34	0.11	ND	0.16	0.11	0.05	0.13	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
- EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 CERTIFICATE OF APPROVAL ASSESSMENT

MUNICIPALITY : BARRIE
PLANT : BARRIE WPCP
WORKS NUMBER : 120000578
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 27.27 (1000 M3)

REGION : CENTRAL
DISTRICT : SIMCOE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : KEMPENFELT BAY L. SIMCOE
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 50,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	24.82	24.82	24.88	30.34	30.94	30.88	30.17	29.42	28.78	30.21	30.68	28.28	28.69	
BOD5														
INFLUENT (MG/L)	176.0	171.0	138.0	ND	268.0	279.0	208.0	159.0	206.0	ND	164.0	205.0	197.4	
EFFLUENT (MG/L)	8.6	14.4	9.9	7.6	12.3	28.0	15.0	5.4	5.4	6.4	10.0	8.3	10.9	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	213.45	357.40	246.31	230.58	380.56	864.64	452.55	158.86	155.41	193.34	306.80	234.72	312.72	
LOADING LIMIT (KG/D)														
SUSPENDED SOLIDS														
INFLUENT (MG/L)	208.0	177.0	148.0	ND	221.0	281.0	226.0	214.0	230.0	234.0	208.0	220.0	215.2	
EFFLUENT (MG/L)	8.0	13.0	9.0	7.6	8.3	49.0	12.3	6.9	6.7	6.5	6.8	6.0	11.7	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	198.56	322.66	223.92	230.58	256.80	1513.12	371.09	202.99	192.82	196.36	208.62	169.68	335.67	
LOADING LIMIT (KG/D)														
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.1	6.9	5.3	ND	6.2	7.1	7.7	5.4	6.3	6.6	4.8	5.5	6.2	
EFFLUENT (MG/L)	0.4	0.6	0.7	0.5	0.3	0.9	0.5	0.2	0.3	0.2	0.2	0.2	0.4*	
CONCENTRATION LIMIT (MG/L)													0.3	
LOADING (KG/D)	9.92	14.89	17.41	15.17	9.28	27.79	15.08	5.88	8.63	6.04	6.13	5.65	11.48	
LOADING LIMIT (KG/D)													13.91	

SUMMARY

PARM	CRITERIA	LOADING	COMPLIES WITH CONC	LOADING
BOD	NA	NA	NA	NA
SS	NA	NA	NA	NA
TP	0.3 MG/L	13.91 KG/D	NO	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - HAS NO CRITERIA
SS - HAS NO CRITERIA
TP - ASSESSED ANNUALLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BARRIE
PLANT : BARRIE WPCP
WORKS NUMBER : 120000578
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 27.27 (1000 M3)

REGION : CENTRAL
DISTRICT : SIMCOE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : KEMPENFELT BAY L. SIMCOE
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 50,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	24.82	24.82	24.88	30.34	30.94	30.88	30.17	29.42	28.78	30.21	30.68	28.28	28.69	
BOD5														
INFLUENT (MG/L)	176.0	171.0	138.0	ND	268.0	279.0	208.0	159.0	206.0	ND	164.0	205.0	197.4	
EFFLUENT (MG/L)	8.6	14.4	9.9	7.6	12.3	28.0	15.0	5.4	5.4	6.4	10.0	8.3	10.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	213.45	357.40	246.31	230.58	380.56	864.64	452.55	158.86	155.41	193.34	306.80	234.72	312.72	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	208.0	177.0	148.0	ND	221.0	281.0	226.0	214.0	230.0	234.0	208.0	220.0	215.2	
EFFLUENT (MG/L)	8.0	13.0	9.0	7.6	8.3	49.0	12.3	6.9	6.7	6.5	6.8	6.0	11.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	198.56	322.66	223.92	230.58	256.80	1513.12	371.09	202.99	192.82	196.36	208.62	169.68	335.67	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.1	6.9	5.3	ND	6.2	7.1	7.7	5.4	6.3	6.6	4.8	5.5	6.2	
EFFLUENT (MG/L)	0.4	0.6	0.7	0.5	0.3	0.9	0.5	0.2	0.3	0.2	0.2	0.2	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	9.92	14.89	17.41	15.17	9.28	27.79	15.08	5.88	8.63	6.04	6.13	5.65	11.48	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BEETON
PLANT : BEETON LAGOON
WORKS NUMBER : 110000917
TREATMENT : EXFILTRATION LAGOON
:
:
DESIGN CAPACITY : 1.36 (1000 M3)

REGION : CENTRAL
DISTRICT : SIMCOE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : NO DISC.TO SURFACE WATER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,105

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.83	0.78	0.77	0.82	0.79	0.82	0.65	0.69	0.72	0.82	0.84	0.72	0.77	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	116.0	114.0	126.0	85.0	102.0	106.5	226.0	385.5	274.0	117.0	198.0	110.0	163.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	129.0	130.0	158.0	104.0	120.0	109.0	258.0	374.5	240.0	173.0	162.0	99.0	171.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.5	7.5	7.7	5.4	5.7	4.6	6.8	7.5	8.5	5.0	4.8	4.4	6.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	NA	NO DIRECT DISCHARGE
SS	NA	NO DIRECT DISCHARGE
TP	NA	NO DIRECT DISCHARGE

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - HAS NO CRITERIA
SS - HAS NO CRITERIA
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BICROFT
PLANT : CARDIFF LAGOON
WORKS NUMBER : 120001032
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS
:
:
DESIGN CAPACITY : 0.45 (1000 M3)

REGION : CENTRAL
DISTRICT : HALLIBURTON
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : MINK CR.TO PAUDASH LAKE
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 595

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	0.64	0.60	ND	ND	ND	ND	0.62	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	98.0	20.0	562.0	7.0	12.0	ND	100.0	288.0	101.0	ND	166.0	ND	150.4	
EFFLUENT (MG/L)	6.1	4.5	8.9	3.2	0.5	8.6	ND	3.5	2.7	ND	4.7	ND	4.7	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	2.10	ND	ND	ND	ND	2.91	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	315.0	417.0	4,700.0	3.0	38.0	239.0	86.0	2,470.0	284.0	ND	227.0	60.0	803.5	
EFFLUENT (MG/L)	12.8	ND	15.8	ND	33.2	9.4	ND	12.2	20.8	ND	12.5	18.6	16.9	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	7.32	ND	ND	ND	ND	10.48	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	1.9	1.1	58.0	0.4	0.9	1.1	12.0	11.0	7.1	ND	3.3	2.9	9.1	
EFFLUENT (MG/L)	0.8	0.9	1.3	0.2	0.7	ND	ND	0.1		ND	0.1	0.4	0.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	0.06	ND	ND	ND	ND	0.31	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	INSUFFICIENT DATA
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
M - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
NO ACTION - MARGINAL FAILURE-MONITORING LEVEL OF FAILED PARAMETER CLOSELY			1989

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BOBCAYGEON
PLANT : BOBCAGEON WPCP(SUMM.POP.SERVED(2480)
WORKS NUMBER : 110002498
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 3.05 (1000 M3)

REGION : CENTRAL
DISTRICT : VICTORIA
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BOBCAYGEON RIVER
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,610

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.95	0.81	0.76	0.90	0.81	0.90	1.12	1.04	0.97	0.95	0.83	0.70	0.90	
BOD5														
INFLUENT (MG/L)	98.0	42.0	66.0	180.0	49.0	179.0	133.0	161.0	56.0	84.0	61.0	142.0	104.3	
EFFLUENT (MG/L)	10.7	6.3	5.3	5.7	11.9	3.3	14.0	7.8	2.0	3.0	4.8	7.0	6.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	10.16	5.10	4.02	5.13	9.63	2.97	15.68	8.11	1.94	2.85	3.98	4.90	6.12	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	88.0	87.0	112.0	189.0	107.0	104.0	175.0	111.0	105.0	120.0	51.0	120.0	114.1	
EFFLUENT (MG/L)	7.2	7.9	7.1	4.3	7.0	ND	13.2	6.6	6.7	8.0	7.3	9.4	7.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	6.84	6.39	5.39	3.87	5.67	ND	14.78	6.86	6.49	7.60	6.05	6.58	6.93	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.3	2.6	3.5	7.8	3.1	5.5	5.3	3.1	3.2	3.9	3.3	5.8	4.2	
EFFLUENT (MG/L)	0.2	0.6	0.4	0.3	0.2	0.1	0.3	0.2	0.2	0.1	0.2	0.3	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.19	0.48	0.30	0.27	0.16	0.09	0.33	0.20	0.19	0.09	0.16	0.21	0.27	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BRACEBRIDGE
PLANT : BRACEBRIDGE LAGOON
WORKS NUMBER : 120001979
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 2.06 (1000 M3)

REGION : CENTRAL
DISTRICT : MUSKOKA, DIST. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : MUSKOKA RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED :

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.38	0.44	1.16	2.36	0.59	0.09	0.03		0.56	0.23	0.56	ND	0.58	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	90.49	18.10	23.93	44.17	
BOD5														
INFLUENT (MG/L)	115.0	99.0	58.0	43.0	87.0	117.0	366.0	ND	ND	144.0	211.0	ND	137.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5	2.5	5.9	3.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.57	1.40	ND	2.09	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	88.0	77.0	52.0	52.0	56.0	123.0	190.0	ND	ND	134.0	198.0	ND	107.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.9	2.9	2.9	2.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.66	1.62	ND	1.68	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.3	5.4	4.2	3.1	5.5	6.1	7.3	ND	ND	5.3	6.5	ND	5.7	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	0.5	0.2	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.11	0.28	ND	0.23	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
M - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1986 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BRACEBRIDGE
PLANT : BRACEBRIDGE WPCP
WORKS NUMBER : 110000034
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
DESIGN CAPACITY : 3.19 (1000 M3)

REGION : CENTRAL
DISTRICT : MUSKOKA, DIST. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : MUSKOKA RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 6,408

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.17	2.31	2.20	2.31	2.57	2.67	2.76	3.01	2.66	2.70	3.01	2.81	2.60	
BOD5														
INFLUENT (MG/L)	115.0	99.0	58.0	43.0	87.0	117.0	366.0	143.0	112.0	144.0	211.0	118.0	134.4	
EFFLUENT (MG/L)	3.8	2.6	2.7	1.8	2.0	2.6	2.1	3.9	7.1	1.2	4.0	3.4	3.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	8.24	6.00	5.94	4.15	5.14	6.94	5.79	11.73	18.88	3.24	12.04	9.55	8.06	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	88.0	77.0	52.0	52.0	56.0	123.0	190.0	165.0	96.0	134.0	198.0	58.0	107.4	
EFFLUENT (MG/L)	5.7	3.5	5.9	3.1	1.8	2.4	2.1	6.1	1.7	2.3	1.9	1.5	3.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	12.36	8.08	12.98	7.16	4.62	6.40	5.79	18.36	4.52	6.21	5.71	4.21	8.32	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.3	5.4	4.2	3.1	5.5	6.1	7.3	5.9	6.1	4.6	6.5	10.0	6.1	
EFFLUENT (MG/L)	0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.4	0.1	0.1	0.3	0.2	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.65	0.46	0.44	0.23	0.25	0.26	0.55	1.20	0.26	0.27	0.90	0.56	0.52	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BRADFORD
PLANT : BRADFORD WPCP
WORKS NUMBER : 110000944
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
DESIGN CAPACITY : 6.81 (1000 M3)

REGION : CENTRAL
DISTRICT : SIMCOE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : SCHOMBERG RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 11,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.97	3.88	4.01	4.15	3.82	3.73	3.69	4.03	4.33	4.18	4.29	4.17	4.02	
BOD5														
INFLUENT (MG/L)	163.5	161.5	169.5	231.3	168.5	228.0	198.5	157.0	208.5	190.5	183.3	228.5	190.7	
EFFLUENT (MG/L)	3.7	5.9	2.6	5.4	1.8	7.5	3.3	1.2	4.3	3.4	2.6	3.7	3.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	14.68	22.89	10.42	22.41	6.87	27.97	12.17	4.83	18.61	14.21	11.15	15.42	15.28	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	254.0	197.0	176.0	1,030.3	489.5	232.5	179.5	175.0	357.5	315.0	444.3	508.0	363.2	
EFFLUENT (MG/L)	3.8	2.4	3.0	1.4	2.6	2.1	2.8	2.1	2.3	1.7	2.6	2.1	2.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	15.08	9.31	12.03	5.81	9.93	7.83	10.33	8.46	9.95	7.10	11.15	8.75	9.65	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.7	7.0	6.6	41.5	8.0	6.3	7.4	6.8	6.7	6.6	7.7	7.2	9.9	
EFFLUENT (MG/L)	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.79	0.38	0.80	0.41	0.38	0.37	0.36	0.40	0.43	0.83	0.42	0.41	0.40	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
- EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BRIGHTON
PLANT : BRIGHTON LAGOON
WORKS NUMBER : 110000953
TREATMENT : AERATED CELL PLUS LAGOON
: CONTINUOUS DISCHARGE
: PHOSPHORUS REMOVAL-CONTINUOUS
DESIGN CAPACITY : 3.86 (1000 M3)

REGION : CENTRAL
DISTRICT : NORTHUMBERLAND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO PRESQUILE
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,750

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.33	3.30	3.87	3.91	3.29	2.62	2.20	1.90	1.43	2.04	1.97	1.76	2.64	
LAGOON DISCHARGE	22.72	95.91	120.05	117.54	10.20	78.56	68.24	55.12	42.87	61.18	59.28	54.58	65.52	
BOD5														
INFLUENT (MG/L)	24.0	110.0	24.0	63.0	74.0	69.0	71.0	68.0	40.0	ND	ND	66.0	60.9	
EFFLUENT (MG/L)	3.2	11.0	15.0	21.3	8.3	7.6	7.7	3.8	9.1	ND	ND	7.2	9.4	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	10.65	36.30	58.05	83.28	27.30	19.91	16.94	7.22	13.01	ND	ND	12.67	24.82	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	23.0	132.0	20.0	53.0	141.0	79.0	109.0	70.0	58.0	ND	ND	ND	76.1	
EFFLUENT (MG/L)	4.4	16.8	10.2	26.7	10.7	8.0	4.3	2.5	7.2	ND	ND	ND	10.1	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	14.65	55.44	39.47	104.39	35.20	20.96	9.46	4.75	10.29	ND	ND	ND	26.66	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.2	4.4	1.5	2.9	5.0	4.8	4.9	1.7	2.8	ND	ND	5.5	3.6	
EFFLUENT (MG/L)	0.7	1.2*	0.4	0.8	1.4*	1.2*	1.2*	0.7	0.9	ND	ND	0.4	0.9	4
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	2.33	3.96	1.54	3.12	4.60	3.14	2.64	1.33	1.28	ND	ND	0.70	2.38	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED	1989/01/01		1989/01/01

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BROCK
PLANT : BEAVERTON RIVER 1 LAGOON (SUNDERLAND)
WORKS NUMBER : 120003496
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS
: EXFILTRATION LAGOON
:
DESIGN CAPACITY : 0.75 (1000 M3)

REGION : CENTRAL
DISTRICT : DURHAM, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NO DISC.TO SURFACE WATER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 875

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.28	0.27	0.28	0.34	0.35	0.29	0.25	0.28	0.28	0.30	0.29	0.28	0.29	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	351.0	372.0	246.0	203.0	156.0	378.0	927.0	226.0	589.0	112.0	1,732.0	269.0	463.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	241.0	209.0	170.0	303.0	173.0	65.0	376.0	149.0	226.0	508.0	451.0	ND	261.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	20.6	19.7	21.6	9.9	6.7	2.4	14.0	7.2	11.9	15.8	20.6	40.0	15.9	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	NA	NO DIRECT DISCHARGE
SS	NA	NO DIRECT DISCHARGE
TP	NA	NO DIRECT DISCHARGE

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - HAS NO CRITERIA
SS - HAS NO CRITERIA
TP - HAS NO CRITERIA
- EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BROCK
PLANT : BEAVERTON RIVER 2 LAGOON (CANNINGTON)
WORKS NUMBER : 110001248
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 0.92 (1000 M3)

REGION : CENTRAL
DISTRICT : DURHAM, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : BEAVERTON RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,835

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.85	0.78	0.81	0.97	0.81	0.59	0.58	0.53	0.60	0.65	0.86	0.67	0.73	
LAGOON DISCHARGE	ND	ND	ND	113.20	30.00	ND	ND	ND	ND	ND	104.56	ND	82.59	
BOD5														
INFLUENT (MG/L)	130.0	82.0	195.0	182.0	ND	429.0	503.0	135.0	144.0	186.0	315.0	121.0	220.2	
EFFLUENT (MG/L)	ND	ND	ND	2.9	1.4	ND	ND	ND	ND	ND	2.8	ND	2.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	2.81	1.13	ND	ND	ND	ND	ND	2.40	ND	1.75	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	399.0	146.0	406.0	266.0	ND	619.0	337.0	321.0	322.0	908.0	535.0	ND	425.9	
EFFLUENT (MG/L)	ND	ND	ND	3.4	4.2	ND	ND	ND	ND	ND	ND	ND	3.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	3.29	3.40	ND	ND	ND	ND	ND	ND	ND	2.77	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.1	6.4	6.9	36.0	ND	11.6	11.0	7.6	6.5	7.7	12.4	9.7	11.0	
EFFLUENT (MG/L)	ND	ND	ND	0.4	0.2	ND	ND	ND	ND	ND	0.1	ND	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	0.38	0.16	ND	ND	ND	ND	ND	0.08	ND	0.15	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1986 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BROCK
PLANT : LAKE SIMCOE LAGOON (BEAVERTON)
WORKS NUMBER : 110000908
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 1.73 (1000 M3)

REGION : CENTRAL
DISTRICT : DURHAM, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE SIMCOE
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,570

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.16	1.27	1.82	2.41	1.76	1.08	0.99	1.04	1.23	1.35	1.97	1.38	1.46	
LAGOON DISCHARGE	ND	ND	ND	91.83	200.02	ND	ND	ND	ND	59.10	154.56	ND	126.38	
BOD5														
INFLUENT (MG/L)	152.0	58.0	309.0	96.0	124.0	133.0	421.0	385.0	126.0	122.0	134.0	143.0	183.6	
EFFLUENT (MG/L)	ND	ND	ND	4.9	2.7	ND	ND	ND	ND	1.8	4.7	ND	3.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	11.80	4.75	ND	ND	ND	ND	2.43	9.25	ND	5.11	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	165.0	114.0	1,570.0	323.0	171.0	150.0	930.0	1,290.0	220.0	290.0	181.0	ND	491.3	
EFFLUENT (MG/L)	ND	ND	ND	6.5	9.1	ND	ND	ND	ND	2.4	ND	ND	6.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	15.66	16.01	ND	ND	ND	ND	3.24	ND	ND	8.76	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.4	4.7	7.6	5.6	4.7	5.1	11.0	13.0	6.0	6.8	6.1	8.1	6.9	
EFFLUENT (MG/L)	ND	ND	ND	0.3	0.2	ND	ND	ND	ND		0.5	ND	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	0.72	0.35	ND	ND	ND	ND		0.98	ND	0.44	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1986 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BURLINGTON
PLANT : SKYWAY WPCP
WORKS NUMBER : 110000070
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 93.19 (1000 M3)

REGION : CENTRAL
DISTRICT : HALLIBURTON, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : HAMILTON HARBOUR
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 120,100

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	60.28	64.55	65.72	71.43	64.54	58.78	64.33	65.12	63.51	60.99	65.09	60.47	63.73	
BOD5														
INFLUENT (MG/L)	221.0	140.0	166.0	226.0	189.0	290.0	183.0	190.0	190.0	159.0	191.0	265.0	200.8	
EFFLUENT (MG/L)	13.3	8.0	3.0	15.1	10.3	6.0	5.3	3.5	5.0	7.5	15.0	18.5	9.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	801.72	516.40	197.16	1078.59	664.76	352.68	340.94	227.92	317.55	457.42	976.35	1118.69	586.32	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	200.0	189.0	156.0	334.0	280.0	566.0	274.0	280.0	192.0	173.0	172.0	216.0	252.7	
EFFLUENT (MG/L)	4.8	5.6	2.0	10.7	8.0	5.2	9.9	4.0	4.2	6.8	5.7	8.8	6.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	289.34	361.48	131.44	764.30	516.32	305.65	636.86	260.48	266.74	414.73	371.01	532.13	401.50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.8	6.5	4.1	ND	12.4	11.2	8.7	7.1	8.6	6.1	7.3	9.0	7.8	
EFFLUENT (MG/L)	1.0	0.7	0.8	0.8	0.9	0.4	0.8	0.8	0.9	0.9	0.7	1.0	0.8	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	60.28	45.18	52.57	57.14	58.08	23.51	51.46	52.09	57.15	54.89	45.56	60.47	50.98	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : CAMPBELLFORD
PLANT : CAMPBELLFORD WPCP
WORKS NUMBER : 110000962
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 5.91 (1000 M3)

REGION : CENTRAL
DISTRICT : NORTHUMBERLAND
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : TRENT RIVER
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,255

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	6.33	6.05	7.22	8.31	6.52	6.13	6.27	5.93	5.73	5.83	6.39	4.92	6.30	
BOD5														
INFLUENT (MG/L)	48.9	27.8	44.3	33.5	39.0	58.0	42.0	44.0	74.5	38.0	175.0	56.0	56.6	
EFFLUENT (MG/L)	4.5	4.8	5.5	8.2	4.7	4.5	5.4	2.1	4.8	6.5	8.2	12.1	5.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	28.48	29.04	39.71	68.14	30.64	27.58	33.85	12.45	27.50	37.89	52.39	59.53	37.17	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	54.7	65.0	45.1	62.5	51.0	51.5	47.0	76.0	83.0	48.0	30.0	126.0	61.7	
EFFLUENT (MG/L)	5.0	6.4	8.2	7.7	6.7	5.4	6.9	6.9	7.3	10.6	8.8	8.8	7.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	31.65	38.72	59.20	63.98	43.68	33.10	43.26	40.91	41.82	61.79	56.23	43.29	46.62	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.5	2.4	2.0	1.7	2.4	2.2	2.1	2.8	3.3	2.7	1.7	3.5	2.4	
EFFLUENT (MG/L)	0.4	0.4	0.8	0.6	0.6	0.6	0.7	0.6	0.7	0.5	0.5	0.6	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	2.53	2.42	5.77	4.98	3.91	3.67	4.38	3.55	4.01	2.91	3.19	2.95	3.78	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : COBOURG
PLANT : COBOURG WPCP NO 1
WORKS NUMBER : 120000097
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 16.04 (1000 M3)

REGION : CENTRAL
DISTRICT : NORTHUMBERLAND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : COBOURG BROOK
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 5,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	7.18	7.27	7.64	8.27	7.55	7.00	5.55	5.46	6.36	6.68	8.00	7.41	7.03	
BOD5														
INFLUENT (MG/L)	546.0	664.0	556.0	570.0	616.0	684.0	487.0	321.0	776.0	602.0	491.0	553.0	572.2	
EFFLUENT (MG/L)	23.9	30.6	47.3	72.2	39.7	16.5	15.7	2.5	22.3	14.4	11.3	18.9	26.3*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	171.60	222.46	361.37	597.09	299.73	115.50	87.13	13.65	141.82	96.19	90.40	140.04	184.89	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	355.0	407.0	404.0	327.0	347.0	391.0	354.0	260.0	363.0	372.0	288.0	258.0	343.8	
EFFLUENT (MG/L)	14.2	20.9	58.1	59.6	28.4	15.8	22.1	8.8	14.4	22.2	9.5	17.5	24.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	101.95	151.94	443.88	492.89	214.42	110.60	122.65	48.04	91.58	148.29	76.00	129.67	170.83	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.6	4.2	3.3	2.3	4.9	4.9	4.3	6.5	4.8	3.1	3.1	6.0	4.4	
EFFLUENT (MG/L)	1.2*	0.5	0.8	0.8	1.1*	1.1*	0.9	1.0	1.2*	0.8	0.9	1.4*	1.0	5
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	8.61	3.63	6.11	6.61	8.30	7.70	4.99	5.46	7.63	5.34	7.20	10.37	7.03	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	NO
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
INFLUENT SEWAGE - DETERMINING SOURCE OF TOXIC LOADINGS	1989/01		1989/01
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED	1989/06	1989/12	1989/12

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : COBOURG
PLANT : COBOURG WPCP NO 2
WORKS NUMBER : 120003192
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 5.86 (1000 M3)

REGION : CENTRAL
DISTRICT : NORTHUMBERLAND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 5,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.49	2.36	2.84	4.26	4.24	4.34	4.08	3.95	3.87	3.91	3.99	3.63	3.66	
BOD5														
INFLUENT (MG/L)	136.4	164.0	150.5	156.0	126.0	122.0	162.0	130.0	154.0	148.0	148.0	156.0	146.1	
EFFLUENT (MG/L)	15.1	17.6	10.6	9.1	10.1	6.4	8.9	8.2	7.6	5.2	12.7	13.8	10.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	37.59	41.53	30.10	38.76	42.82	27.77	36.31	32.39	29.41	20.33	50.67	50.09	38.06	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	184.0	193.0	209.0	165.0	174.0	190.0	244.0	195.0	214.0	227.0	233.0	230.0	204.8	
EFFLUENT (MG/L)	14.7	11.3	8.3	11.5	17.1	9.1	9.0	9.7	10.4	7.9	15.1	19.3	12.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	36.60	26.66	23.57	48.99	72.50	39.49	36.72	38.31	40.24	30.88	60.24	70.05	43.92	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.9	3.6	4.1	3.0	2.5	3.4	2.6	4.5	4.0	2.9	3.4	2.1	3.3	
EFFLUENT (MG/L)	0.7	0.7	0.5	0.6	0.7	0.8	0.7	0.8	0.9	0.6	0.6	0.5	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	1.74	1.65	1.42	2.55	2.96	3.47	2.85	3.16	3.48	2.34	2.39	1.81	2.56	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : COLBORNE
PLANT : COLBORNE WPCP
WORKS NUMBER : 120000088
TREATMENT : EXTENDED AERATION
: POLISHING LAGOON(S)
: DENITRIFICATION
DESIGN CAPACITY : 1.37 (1000 M3)

REGION : CENTRAL
DISTRICT : NORTHUMBERLAND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : COLBORNE CREEK
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,800

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.81	0.86	1.09	1.49	1.[illegible]	72	1.08	1.10	1.04	0.91	0.97	0.85	1.11	
BOD5														
INFLUENT (MG/L)	63.0	139.0	81.0	63.0	47.0	.20.0	204.0	88.7	109.0	109.0	74.0	ND	99.8	
EFFLUENT (MG/L)	3.0	5.0	5.1	5.2	1.0	1.0	3.0	2.1	1.6	2.0	12.4	ND	3.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2.43	4.30	5.55	7.74	1.42	1.72	3.24	2.31	1.66	1.82	12.02	ND	4.22	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	110.0	110.0	33.0	54.0	74.0	152.0	246.0	102.0	138.0	114.0	150.0	ND	116.6	
EFFLUENT (MG/L)	3.7	3.6	11.2	2.3	4.4	12.3	3.0	3.1	11.9	3.6	25.0	ND	7.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2.99	3.09	12.20	3.42	6.24	21.15	3.24	3.41	12.37	3.27	24.25	ND	8.44	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.5	3.6	4.5	2.6	3.4	5.6	5.1	5.1	6.1	5.0	4.4	ND	4.5	
EFFLUENT (MG/L)	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.4	0.4	0.5	0.7	ND	0.3	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.16	0.17	0.21	0.29	0.42	0.34	0.21	0.44	0.41	0.45	0.67	ND	0.33	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : COLDWATER
PLANT : COLDWATER WPCP
WORKS NUMBER : 110001596
TREATMENT : EXTENDED AERATION
:
:
DESIGN CAPACITY : 0.54 (1000 M3)

REGION : CENTRAL
DISTRICT : SIMCOE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : COLDWATER RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 796

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.36	0.38	0.45	0.53	0.47	0.37	0.41	0.42	0.45	0.46	0.59	0.43	0.44	
BOD5														
INFLUENT (MG/L)	67.3	80.9	83.5	49.7	85.9	88.3	168.5	119.0	96.0	89.0	49.0	74.0	87.6	
EFFLUENT (MG/L)	8.2	4.6	5.9	4.8	5.1	4.4	6.0	2.4	2.8	5.5	2.8	5.1	4.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2.95	1.74	2.65	2.54	2.39	1.62	2.46	1.00	1.26	2.53	1.65	2.19	2.11	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	63.1	84.7	80.4	68.4	85.9	106.5	180.0	168.0	75.4	110.0	51.0	90.0	97.0	
EFFLUENT (MG/L)	8.5	3.7	3.9	4.7	4.4	7.4	2.8	2.9	4.3	3.3	2.3	7.9	4.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.06	1.40	1.75	2.49	2.06	2.73	1.14	1.21	1.93	1.51	1.35	3.39	2.07	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.4	4.9	5.1	3.6	4.3	6.2	7.4	7.0	5.6	5.3	3.5	7.6	5.3	
EFFLUENT (MG/L)	2.3	2.1	2.9	2.5	2.7	4.7	4.6	2.0	3.8	3.9	2.3	2.1	3.0	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.82	0.79	1.30	1.32	1.26	1.73	1.88	0.84	1.71	1.79	1.35	0.90	1.32	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : COLLINGWOOD
PLANT : COLLINGWOOD WPCP
WORKS NUMBER : 120000550
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 24.54 (1000 M3)

REGION : CENTRAL
DISTRICT : SIMCOE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : GEORGIAN BAY
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 11,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	18.21	18.60	18.57	17.79	15.18	15.76	14.18	15.80	18.29	22.25	20.34	ND	17.72	
BOD5														
INFLUENT (MG/L)	96.0	135.0	176.0	146.0	167.0	149.0	112.0	110.0	112.0	111.0	111.0	ND	129.5	
EFFLUENT (MG/L)	9.0	7.0	8.0	6.0	5.0	3.6	2.3	3.1	5.0	7.5	5.2	ND	5.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	163.89	130.20	148.56	106.74	75.90	56.73	32.61	48.98	91.45	166.87	105.76	ND	99.23	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	90.0	69.0	92.0	119.0	170.0	193.0	174.0	191.0	121.0	132.0	138.0	ND	135.4	
EFFLUENT (MG/L)	11.0	12.0	12.0	9.0	14.0	12.0	14.0	16.0	10.0	11.0	9.2	ND	11.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	200.31	223.20	222.84	160.11	212.52	189.12	198.52	252.80	182.90	244.75	187.12	ND	209.10	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.2	5.5	3.5	3.8	9.5	11.3	9.7	9.5	6.3	4.5	6.2	ND	6.8	
EFFLUENT (MG/L)	0.5	0.9	0.5	0.4	0.8	2.3*	2.3*	1.0	0.7	0.8	0.9	ND	1.0	2
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	9.10	16.74	9.28	7.11	12.14	36.24	32.61	15.80	12.80	17.80	18.30	ND	17.72	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
INFLUENT SEWAGE - ENFORCING SEWER USE BYLAW			

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : COOKSTOWN
PLANT : COOKSTOWN WPCP
WORKS NUMBER : 110002265
TREATMENT : EXTENDED AERATION
: HOLDING TANKS
:
DESIGN CAPACITY : 0.82 (1000 M3)

REGION : CENTRAL
DISTRICT : SIMCOE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : INNISFIL CREEK
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,027

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	0.09	0.11	0.10	0.10	0.10	0.11	0.13	0.19	0.19	0.20	0.13	
BOD5														
INFLUENT (MG/L)	ND	ND	77.0	123.0	153.5	95.0	118.0	28.0	130.5	277.5	220.0	177.5	140.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.4	ND	8.0	5.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.64	ND	1.60	0.74	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	111.5	208.0	125.5	442.5	102.0	52.5	214.0	733.0	419.5	162.0	257.1	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	26.7	ND	14.9	20.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.07	ND	2.98	2.70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	3.5	7.7	6.2	8.0	6.2	3.3	6.7	10.2	9.6	8.2	7.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	INSUFFICIENT DATA
SS	25.0 MG/L	INSUFFICIENT DATA
TP	NA	INSUFFICIENT DATA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : DYSART-ET-AL
PLANT : HALIBURTON WPCP
WORKS NUMBER : 110001603
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
DESIGN CAPACITY : 0.45 (1000 M3)

REGION : CENTRAL
DISTRICT : HALLIBURTON
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : DRAG R. TO GRASS LAKE
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 920

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.32	0.35	0.39	0.42	0.37	0.35	0.38	0.36	0.26	0.27	0.36	0.30	0.34	
BOD5														
INFLUENT (MG/L)	213.0	115.0	123.0	215.0	234.0	290.0	503.0	319.0	52.0	397.0	315.0	48.0	235.3	
EFFLUENT (MG/L)	2.2	1.8	4.6	4.6	3.2	1.3	2.0	5.5	2.3	2.0	1.4	4.7	3.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.70	0.63	1.79	1.93	1.18	0.45	0.76	1.98	0.59	0.54	0.50	1.41	1.02	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	164.0	138.0	295.0	195.0	177.0	189.0	277.0	424.0	176.0	426.0	ND	18.0	225.4	
EFFLUENT (MG/L)	5.5	3.2	6.1	10.5	5.7	3.6	3.7	3.8	5.0	5.9	ND	8.4	5.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.76	1.12	2.37	4.41	2.10	1.26	1.40	1.36	1.30	1.59	ND	2.52	1.90	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	16.7	7.5	9.0	9.5	4.4	9.2	9.8	8.0	6.8	11.4	7.9	2.0	8.5	
EFFLUENT (MG/L)	0.5	0.4	0.4	0.5	0.3	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.16	0.14	0.15	0.21	0.11	0.10	0.19	0.10	0.07	0.08	0.10	0.09	0.14	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : EAST GWILLIMBURY
PLANT : HOLLAND LANDING LAGOON
WORKS NUMBER : 120001620
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 1.36 (1000 M3)

REGION : CENTRAL
DISTRICT : YORK, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : HOLLAND RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,200

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.23	0.98	1.03	1.35	1.06	1.07	0.74	0.95	1.29	1.36	1.54	1.32	1.16	
LAGOON DISCHARGE	100.00	ND	ND	ND	200.00	ND	ND	ND	ND	ND	150.02	100.00	137.51	
BOD5														
INFLUENT (MG/L)	54.0	88.0	15.0	79.0	135.0	277.0	122.0	64.0	ND	80.0	ND	76.0	99.0	
EFFLUENT (MG/L)	1.9	ND	ND	ND	11.8	ND	ND	ND	ND	ND	13.7	18.2	11.4	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	2.33	ND	ND	ND	12.50	ND	ND	ND	ND	ND	21.09	24.02	13.22	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	101.0	115.0	ND	99.0	608.0	205.0	104.0	102.0	ND	ND	ND	72.0	175.8	
EFFLUENT (MG/L)	7.4	ND	ND	ND	6.5	ND	ND	ND	ND	ND	7.6	7.2	7.2	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	9.10	ND	ND	ND	6.89	ND	ND	ND	ND	ND	11.70	9.50	8.35	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.0	5.0	6.2	3.4	8.4	6.1	8.7	4.3	ND	5.0	ND	5.7	5.7	
EFFLUENT (MG/L)	0.2	ND	ND	ND	0.3	ND	ND	ND	ND	ND	0.4	0.4	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.24	ND	ND	ND	0.31	ND	ND	ND	ND	ND	0.61	0.52	0.35	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : EAST GWILLIMBURY
PLANT : MOUNT ALBERT WPCP
WORKS NUMBER : 120001853
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
: SEASONAL DISCHARGE
DESIGN CAPACITY : 0.68 (1000 M3)

REGION : CENTRAL
DISTRICT : YORK, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : MOUNT ALBERT CREEK
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,100

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.23	0.22	0.21	0.26	0.22	0.23	0.26	0.28	0.30	0.30	0.32	0.31	0.26	
BOD5														
INFLUENT (MG/L)	139.0	167.0	190.0	207.0	98.0	67.0	65.0	ND	ND	109.0	80.0	71.0	119.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.5	33.0	22.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.68	10.23	5.80	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	124.0	172.0	215.0	197.0	147.0	90.0	61.0	ND	ND	167.0	15.0	41.0	122.9	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.7	17.1	13.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.10	5.30	3.48	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.2	9.4	9.5	8.6	7.2	5.7	8.0	ND	ND	6.5	5.0	7.1	7.5	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2	0.3	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.06	0.09	0.08	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ELMVALE
PLANT : ELMVALE LAGOON
WORKS NUMBER : 110000169
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS
DESIGN CAPACITY : 0.75 (1000 M3)

REGION : CENTRAL
DISTRICT : SIMCOE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : WYE RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,200

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1 9	ND	ND	1.68	1.23	0.99	0.97	0.97	1.15	1.28	1.66	1.25	1.24	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	116.0	ND	ND	53.9	170.0	227.0	102.0	314.0	500.0	116.0	103.0	104.0	180.6	
EFFLUENT (MG/L)	14.9	ND	ND	22.4	39.1	ND	50.7	14.2	1.7	4.3	17.4	13.9	19.8	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	17.73	ND	ND	37.63	48.09	ND	49.17	13.77	1.95	5.50	28.88	17.37	24.55	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	130.4	ND	ND	43.8	530.0	367.0	324.0	532.0	377.0	191.0	125.0	ND	291.1	
EFFLUENT (MG/L)	115.6	ND	ND	21.6	ND	17.7	3.5	11.9	4.7	ND	23.6	ND	28.4	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	137.56	ND	ND	36.28	ND	17.52	3.39	11.54	5.40	ND	39.17	ND	35.22	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.3	ND	ND	1.6	30.3	8.7	4.1	6.6	16.3	6.8	4.6	6.1	9.2	
EFFLUENT (MG/L)	3.0	ND	ND	3.4	2.8	ND	ND	ND	0.7	4.5	2.4	2.4	2.7	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	3.57	ND	ND	5.71	3.44	ND	ND	ND	0.80	5.76	3.98	3.00	3.35	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	INSUFFICIENT DATA
TP	NA	INSUFFICIENT DATA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ESSA
PLANT : ANGUS WPCP
WORKS NUMBER : 110003282
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 3.39 (1000 M3)

REGION : CENTRAL
DISTRICT : SIMCOE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : NOTTAWASAGA RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,560

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.78	0.76	0.89	1.03	1.03	0.78	0.64	0.73	0.78	0.83	0.88	0.85	0.83	
BOD5														
INFLUENT (MG/L)	164.5	132.5	65.0	83.0	42.0	156.0	117.5	157.0	174.5	131.0	86.5	146.0	121.3	
EFFLUENT (MG/L)	8.1	2.8	1.9	4.2	6.2	4.1	15.0	4.4	2.6	2.1	9.9	1.5	5.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	6.31	2.12	1.69	4.32	6.38	3.19	9.60	3.21	2.02	1.74	8.71	1.27	4.32	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	138.3	116.0	58.5	91.0	55.0	183.5	147.5	173.5	132.0	153.5	99.5	100.0	120.7	
EFFLUENT (MG/L)	6.7	8.0	7.9	6.4	5.6	5.3	4.9	5.7	3.2	5.9	4.9	4.4	5.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	5.22	6.08	7.03	6.59	5.76	4.13	3.13	4.16	2.49	4.89	4.31	3.74	4.73	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.2	7.2	4.8	4.2	4.8	7.9	8.4	7.8	6.6	5.8	6.2	7.9	6.7	
EFFLUENT (MG/L)	0.4	0.3	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.4	1.0	0.4	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.31	0.22	0.17	0.20	0.30	0.15	0.19	0.14	0.15	0.33	0.88	0.34	0.25	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : FENELON FALLS
PLANT : FENELON FALLS WPCP(SUMMER POPSERVE 3136)
WORKS NUMBER : 110001612
TREATMENT : OXIDATION DITCH
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 1.00 (1000 M3)

REGION : CENTRAL
DISTRICT : VICTORIA
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : FENELON RIVER
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,817

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.75	0.84	0.88	0.75	0.90	0.76	0.80	0.78	0.90	0.99	1.10	0.88	0.86	
BOD5														
INFLUENT (MG/L)	103.0	106.0	90.0	103.0	ND	100.0	82.0	102.0	90.0	115.0	55.0	ND	94.6	
EFFLUENT (MG/L)	11.7	5.6	4.4	11.7	ND	3.2	17.3	2.6	2.2	6.7	6.6	ND	7.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	8.77	4.70	3.87	8.77	ND	2.43	13.84	2.02	1.98	6.63	7.26	ND	6.19	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	90.0	92.0	131.0	90.0	ND	115.0	114.0	107.0	82.0	172.0	56.0	86.0	103.2	
EFFLUENT (MG/L)	24.4	19.8	15.7	24.4	ND	5.2	9.1	4.3	8.7	15.5	10.9	11.7	13.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	18.30	16.63	13.81	18.30	ND	3.95	7.28	3.35	7.83	15.34	11.99	10.29	11.70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.1	5.2	4.7	5.1	ND	4.9	5.1	5.4	4.7	5.7	3.5	5.0	4.9	
EFFLUENT (MG/L)	0.9	0.5	0.4	0.9	ND	0.1	0.2	0.2	0.2	0.4	0.5	0.4	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.67	0.42	0.35	0.67	ND	0.07	0.16	0.15	0.18	0.39	0.55	0.35	0.34	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 CERTIFICATE OF APPROVAL ASSESSMENT

MUNICIPALITY : GEORGINA
PLANT : KESWICK WPCP
WORKS NUMBER : 120001755
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 12.07 (1000 M3)

REGION : CENTRAL
DISTRICT : YORK, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : COOK BAY(L.SIMCOE)
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 8,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.97	2.96	3.36	3.61	3.20	2.86	2.83	3.06	3.29	3.52	3.76	3.52	3.25	
BOD5														
INFLUENT (MG/L)	68.0	97.0	117.0	75.0	139.0	129.0	88.0	97.0	125.0	88.0	124.0	220.0	113.9	
EFFLUENT (MG/L)	1.8	1.5	1.4	1.5	4.8	0.6	0.4	2.5	0.4	1.5	9.1	13.4	3.2	
CONCENTRATION LIMIT (MG/L)													10.0	
LOADING (KG/D)	5.34	4.44	4.70	5.41	15.36	1.71	1.13	7.65	1.31	5.28	34.21	47.16	10.40	
LOADING LIMIT (KG/D)														
SUSPENDED SOLIDS														
INFLUENT (MG/L)	78.0	109.0	111.0	93.0	194.0	169.0	158.0	190.0	186.0	124.0	104.0	107.0	135.3	
EFFLUENT (MG/L)	1.7	1.4	1.6	2.3	1.8	0.6	3.3	2.1	1.7	1.0	6.7	2.6	2.2	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	5.04	4.14	5.37	8.30	5.76	1.71	9.33	6.42	5.59	3.52	25.19	9.15	7.15	
LOADING LIMIT (KG/D)														
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.4	5.3	5.1	4.8	6.8	6.8	5.5	6.2	6.9	4.9	5.9	5.5	5.7	
EFFLUENT (MG/L)	0.2	0.1	0.1	0.2	0.2	0.2	0.4	0.2	0.3	0.2	0.3	0.2	0.2	
CONCENTRATION LIMIT (MG/L)													0.3	
LOADING (KG/D)	0.59	0.29	0.33	0.72	0.64	0.57	1.13	0.61	0.98	0.70	1.12	0.70	0.65	
LOADING LIMIT (KG/D)													3.62	

SUMMARY

PARM	CRITERIA	LOADING	COMPLIES WITH CONC	COMPLIES WITH LOADING
BOD	10.0 MG/L	NA	YES	NA
SS	NA	NA	NA	NA
TP	0.3 MG/L	3.62 KG/D	YES	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - HAS NO CRITERIA
TP - ASSESSED ANNUALLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : GEORGINA
PLANT : KESWICK WPCP
WORKS NUMBER : 1200001755
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 12.07 (1000 M3)

REGION : CENTRAL
DISTRICT : YORK, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : COOK BAY(L.SIMCOE)
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 8,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.97	2.96	3.36	3.61	3.20	2.86	2.83	3.06	3.29	3.52	3.76	3.52	3.25	
BOD5														
INFLUENT (MG/L)	68.0	97.0	117.0	75.0	139.0	129.0	88.0	97.0	125.0	88.0	124.0	220.0	113.9	
EFFLUENT (MG/L)	1.8	1.5	1.4	1.5	4.8	0.6	0.4	2.5	0.4	1.5	9.1	13.4	3.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	5.34	4.44	4.70	5.41	15.36	1.71	1.13	7.65	1.31	5.28	34.21	47.16	10.40	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	78.0	109.0	111.0	93.0	194.0	169.0	158.0	190.0	186.0	124.0	104.0	107.0	135.3	
EFFLUENT (MG/L)	1.7	1.4	1.6	2.3	1.8	0.6	3.3	2.1	1.7	1.0	6.7	2.6	2.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	5.04	4.14	5.37	8.30	5.76	1.71	9.33	6.42	5.59	3.52	25.19	9.15	7.15	
TOTAL PHOSPHORUS														
INFLUENT (MG/L)	4.4	5.3	5.1	4.8	6.8	6.8	5.5	6.2	6.9	4.9	5.9	5.5	5.7	
EFFLUENT (MG/L)	0.2	0.1	0.1	0.2	0.2	0.2	0.4	0.2	0.3	0.2	0.3	0.2	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.59	0.29	0.33	0.72	0.64	0.57	1.13	0.61	0.98	0.70	1.12	0.70	0.65	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : GEORGINA
PLANT : SUTTON WPCP
WORKS NUMBER : 110001168
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 2.04 (1000 M3)

REGION : CENTRAL
DISTRICT : YORK, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : BLACK RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,650

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.09	1.02	1.20	1.46	1.16	0.92	1.19	1.24	1.22	1.22	1.34	1.13	1.18	
BOD5														
INFLUENT (MG/L)	145.0	129.0	94.0	ND	112.0	286.0	71.0	116.0	100.0	92.0	115.0	108.0	124.4	
EFFLUENT (MG/L)	5.9	2.7	2.3	ND	4.0	1.6	8.7	3.6	1.1	8.4	5.0	1.7	4.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	6.43	2.75	2.76	ND	4.64	1.47	10.35	4.46	1.34	10.24	6.70	1.92	4.84	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	119.0	149.0	ND	146.0	290.0	93.0	191.0	157.0	162.0	132.0	ND	159.9	
EFFLUENT (MG/L)	1.7	13.6	4.1	ND	4.0	3.3	7.1	2.9	3.2	3.0	8.5	ND	5.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.85	13.87	4.92	ND	4.64	3.03	8.44	3.59	3.90	3.66	11.39	ND	6.02	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.2	5.1	7.1	ND	6.3	7.4	6.8	6.4	6.0	5.0	7.0	6.1	6.3	
EFFLUENT (MG/L)	0.1	0.2		ND	0.1	0.4	0.3	0.4	0.1	0.1	0.3	0.1	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.10	0.20		ND	0.11	0.36	0.35	0.49	0.12	0.12	0.40	0.11	0.24	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : GRAVENHURST
PLANT : GRAVENHURST WPCP (DUAL OPERATION)
WORKS NUMBER : 120000809
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
DESIGN CAPACITY : 3.04 (1000 M3)

REGION : CENTRAL
DISTRICT : MUSKOKA, DIST. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : MUSKOKA LAKE
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 4,782

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.98	2.11	2.31	2.85	2.40	2.28	2.21	2.43	2.73	2.97	2.74	2.20	2.44	
BOD5														
INFLUENT (MG/L)	61.6	137.0	119.0	99.0	138.0	161.0	ND	74.0	131.0	136.0	88.0	183.0	120.7	
EFFLUENT (MG/L)	3.1	2.9	3.9	7.2	2.4	2.5	ND	9.6	10.0	1.6	2.4	11.6	5.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	6.13	6.32	9.00	20.52	5.76	5.70	ND	23.32	27.30	4.75	6.57	25.52	12.69	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	79.3	97.0	104.0	69.0	353.0	110.0	ND	79.0	99.0	144.0	ND	84.0	121.8	
EFFLUENT (MG/L)	6.3	15.9	4.9	9.1	8.6	10.1	ND	7.2	4.1	5.0	ND	10.1	8.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	12.47	34.66	11.31	25.93	20.64	23.02	ND	17.49	11.19	14.85	ND	22.22	19.76	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.2	6.0	5.3	5.3	7.1	5.7	ND	5.2	4.1	6.6	4.9	6.0	5.6	
EFFLUENT (MG/L)	0.3	0.5	0.7	0.5	0.3	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	* 0.59	1.09	1.61	1.42	0.72	0.22	0.22	0.24	0.54	0.59	0.54	0.44	0.73	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : HALTON HILLS
PLANT : ACTON WPCP + LAGOON
WORKS NUMBER : 120001023
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
DESIGN CAPACITY : 4.54 (1000 M3)

REGION : CENTRAL
DISTRICT : HALLIBURTON, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : BLACK CREEK
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 7,478

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.60	2.68	2.80	3.20	2.80	2.03	2.20	2.40	2.60	2.40	2.76	2.60	2.59	
BOD5														
INFLUENT (MG/L)	138.0	178.0	128.0	101.0	115.0	130.0	113.0	144.0	142.0	140.0	141.0	240.0	142.5	
EFFLUENT (MG/L)	2.1	3.3	1.1	0.7	0.8	1.9	0.7	0.7	0.7	0.1	0.8	1.8	1.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	5.46	8.84	3.08	2.24	2.24	3.85	1.54	1.68	1.82	0.24	2.20	4.68	3.11	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	292.0	300.0	124.0	136.0	118.0	173.0	116.0	171.0	125.0	122.0	132.0	128.0	161.4	
EFFLUENT (MG/L)	5.3	5.3	2.6	3.0	1.3	4.9	2.0	4.9	1.4	1.2	2.4	2.4	3.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	13.78	14.20	7.28	9.60	3.64	9.94	4.40	11.76	3.64	2.88	6.62	6.24	8.03	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.7	9.8	6.5	7.3	7.6	5.9	6.3	7.9	7.4	6.9	3.5	6.7	6.8	
EFFLUENT (MG/L)	0.1	0.3	0.5	0.4	0.3	0.2	0.3	0.3	0.4	0.2	0.3	0.2	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.26	0.80	1.40	1.28	0.84	0.40	0.66	0.72	1.04	0.48	0.82	0.52	0.78	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : HALTON HILLS
PLANT : GEORGETOWN WPCP
WORKS NUMBER : 110000294
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
DESIGN CAPACITY : 13.63 (1000 M3)

REGION : CENTRAL
DISTRICT : HALLIBURTON, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : SILVER CREEK
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 20,100

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	10.66	10.72	11.39	11.57	10.82	10.22	8.22	8.52	9.57	9.78	10.49	8.97	10.08	
BOD5														
INFLUENT (MG/L)	181.0	142.0	174.0	132.0	124.0	125.0	120.0	97.0	103.0	198.0	129.0	213.0	144.8	
EFFLUENT (MG/L)	3.6	16.5	3.6	4.7	1.0	1.2	0.7	0.2	0.4	0.4		1.1	2.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	38.37	176.88	41.00	54.37	10.82	12.26	5.75	1.70	3.82	3.91		9.86	28.22	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	209.0	185.0	188.0	195.0	197.0	174.0	176.0	163.0	173.0	267.0	215.0	329.0	205.9	
EFFLUENT (MG/L)	1.6	2.3	1.5	3.1	1.7	2.4	1.7	1.6	5.2	2.4	2.3	4.0	2.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	17.05	24.65	17.08	35.86	18.39	24.52	13.97	13.63	49.76	23.47	24.12	35.88	25.20	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.6	6.8	9.7	8.4	9.5	9.1	6.8	10.4	11.9	8.9	9.1	12.8	9.3	
EFFLUENT (MG/L)	0.4	0.2	0.3	0.8	0.4	1.0	0.3	0.4	0.5	0.2	0.3	1.0	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	4.26	2.14	3.41	9.25	4.32	10.22	2.46	3.40	4.78	1.95	3.14	8.97	5.04	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
- EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : HASTINGS
PLANT : HASTINGS WPCP
WORKS NUMBER : 110001827
TREATMENT : OXIDATION DITCH
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 1.05 (1000 M3)

REGION : CENTRAL
DISTRICT : NORTHUMBERLAND
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : TRENT RIVER
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 959

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.74	0.70	0.86	0.96	0.85	0.67	0.64	0.67	0.69	0.81	1.00	0.85	0.79	
BOD5														
INFLUENT (MG/L)	42.0	47.6	34.7	62.2	40.9	53.0	74.0	326.5	52.5	29.5	55.7	33.0	71.0	
EFFLUENT (MG/L)	5.3	4.0	6.3	6.0	11.2	3.3	0.6	8.0	1.8	1.3	7.6	9.6	5.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.92	2.80	5.41	5.76	9.52	2.21	0.38	5.36	1.24	1.05	7.60	8.16	4.27	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	51.9	67.4	52.9	67.7	80.0	57.0	37.0	1,043.0	71.0	42.0	140.0	39.0	145.7	
EFFLUENT (MG/L)	52.4	52.2	15.0	13.6	6.5	5.5	4.3	6.5	5.0	5.9	8.4	18.6	16.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	39.51	36.54	12.90	13.05	5.52	3.68	2.75	4.35	3.45	4.77	8.40	15.81	12.80	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.5	2.5	2.5	2.1	3.1	2.6	1.7	7.8	3.3	2.3	2.9	2.3	3.0	
EFFLUENT (MG/L)	1.6*	1.0	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.3	0.5	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	1.18	0.70	0.34	0.38	0.17	0.13	0.12	0.13	0.13	0.32	0.30	0.25	0.40	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
EQUIPMENT/MAINTENANCE - EXISTING EQUIPMENT BEING REPAIRED	2001	1988/01	1988/02

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : HAVELOCK
PLANT : HAVELOCK LAGOON
WORKS NUMBER : 110001765
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 0.58 (1000 M3)

REGION : CENTRAL
DISTRICT : PETERBOROUGH
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : PLATO CREEK
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,362

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.90	0.90	0.92	1.17	0.89	0.76	0.73	0.67	0.67	0.68	0.73	0.72	0.81	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	68.48	ND	68.48	
BOD5														
INFLUENT (MG/L)	ND	111.0	ND	ND	ND	ND	ND	67.0	98.0	96.0	87.5	ND	91.9	
EFFLUENT (MG/L)	ND	ND	ND	ND	5.3	ND	ND	ND	ND	ND	6.7	ND	6.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	4.71	ND	ND	ND	ND	ND	4.89	ND	4.86	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	142.0	ND	ND	ND	ND	ND	122.0	116.0	98.5	70.0	149.0	116.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	9.9	ND	ND	ND	ND	ND	3.9	ND	6.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	8.81	ND	ND	ND	ND	ND	2.84	ND	5.59	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	5.0	5.1	5.3	5.1	8.4	5.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	0.8	ND	ND	ND	ND	ND	0.2	ND	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	0.71	ND	ND	ND	ND	ND	0.14	ND	0.41	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : HUNTSVILLE
PLANT : HUNTSVILLE WPCP
WORKS NUMBER : 110000347
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 4.54 (1000 M3)

REGION : CENTRAL
DISTRICT : MUSKOKA, DIST. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : MUSKOKA RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,016

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.42	3.87	4.12	5.84	4.21	3.59	3.52	3.64	3.09	3.62	4.24	3.52	3.89	
BOD5														
INFLUENT (MG/L)	109.0	117.0	80.0	51.0	77.0	113.0	141.0	128.0	185.0	13.0	90.0	38.0	95.2	
EFFLUENT (MG/L)	7.0	6.8	3.9	4.5	2.6	4.8	3.9	2.9	2.6	3.1	10.0	3.2	4.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	23.94	26.31	16.06	26.28	10.94	17.23	13.72	10.55	8.03	11.22	42.40	11.26	17.89	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	118.5	176.0	98.0	79.0	121.0	116.0	123.0	142.0	170.0	125.0	90.0	27.0	115.5	
EFFLUENT (MG/L)	6.5	11.7	10.6	15.1	7.1	5.7	5.2	4.3	5.0	5.6	6.5	9.1	7.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	22.23	45.27	43.67	88.18	29.89	20.46	18.30	15.65	15.45	20.27	27.56	32.03	29.95	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.6	5.6	3.9	2.6	4.8	5.0	5.5	5.1	6.2	5.4	3.9	2.3	4.7	
EFFLUENT (MG/L)	0.4	0.5	0.4	0.3	0.1	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	1.36	1.93	1.64	1.75	0.42	0.71	0.70	0.72	0.92	0.72	0.84	1.05	1.17	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 CERTIFICATE OF APPROVAL ASSESSMENT

MUNICIPALITY : INNISFIL
PLANT : INNISFIL (ALCONA) WPCP
WORKS NUMBER : 110002586
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
DESIGN CAPACITY : 7.27 (1000 M3)

REGION : CENTRAL
DISTRICT : SIMCOE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : LAKE SIMCOE
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 4,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
/ G. DAILY FLOW (1000 M3)	0.53	0.62	0.60	0.73	0.66	0.82	0.99	1.09	1.13	1.11	1.21	0.95	0.87	
BOD5														
INFLUENT (MG/L)	68.2	71.1	61.1	100.0	85.7	108.0	175.5	95.0	222.0	77.5	88.0	85.0	103.1	
EFFLUENT (MG/L)	1.4	2.0	2.7	2.3	1.5	0.2	4.7	0.7	2.8	1.5	3.4	1.6	2.1	
CONCENTRATION LIMIT (MG/L)													10.0	
LOADING (KG/D)	0.74	1.24	1.62	1.67	0.99	0.16	4.65	0.76	3.16	1.66	4.11	1.52	1.83	
LOADING LIMIT (KG/D)													71.85	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	84.0	141.0	120.5	108.0	101.9	112.0	256.5	178.0	297.0	156.5	112.0	140.0	150.6	
EFFLUENT (MG/L)	1.4	1.4	1.3	1.2	1.2	0.7	1.8	1.6	1.8	2.0	2.0	1.5	1.5	
CONCENTRATION LIMIT (MG/L)													15.0	
LOADING (KG/D)	0.74	0.86	0.78	0.87	0.79	0.57	1.78	1.74	2.03	2.22	2.42	1.42	1.31	
LOADING LIMIT (KG/D)													107.78	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.5	3.8	4.1	3.7	4.8	5.5	7.0	5.9	10.1	4.3	4.5	5.5	5.3	
EFFLUENT (MG/L)	0.1	0.1	0.2	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
CONCENTRATION LIMIT (MG/L)													0.3	
LOADING (KG/D)	0.05	0.06	0.12	0.21	0.06	0.08	0.09	0.10	0.11	0.11	0.12	0.09	0.09	
LOADING LIMIT (KG/D)													2.16	

SUMMARY

PARM	CRITERIA	LOADING	COMPLIES WITH CONC	LOADING
BOD	10.0 MG/L	71.85 KG/D	YES	YES
SS	15.0 MG/L	107.78 KG/D	YES	YES
TP	0.3 MG/L	2.16 KG/D	YES	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED ANNUALLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : INNISFIL
PLANT : INNISFIL (ALCONA) WPCP
WORKS NUMBER : 110002586
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
DESIGN CAPACITY : 7.27 (1000 M3)

REGION : CENTRAL
DISTRICT : SIMCOE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : LAKE SIMCOE
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 4,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.53	0.62	0.60	0.73	0.66	0.82	0.99	1.09	1.13	1.11	1.21	0.95	0.87	
BOD5														
INFLUENT (MG/L)	68.2	71.1	61.1	100.0	85.7	108.0	175.5	95.0	222.0	77.5	88.0	85.0	103.1	
EFFLUENT (MG/L)	1.4	2.0	2.7	2.3	1.5	0.2	4.7	0.7	2.8	1.5	3.4	1.6	2.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.74	1.24	1.62	1.67	0.99	0.16	4.65	0.76	3.16	1.66	4.11	1.52	1.83	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	84.0	141.0	120.5	108.0	101.9	112.0	256.5	178.0	297.0	156.5	112.0	140.0	150.6	
EFFLUENT (MG/L)	1.4	1.4	1.3	1.2	1.2	0.7	1.8	1.6	1.8	2.0	2.0	1.5	1.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.74	0.86	0.78	0.87	0.79	0.57	1.78	1.74	2.03	2.22	2.42	1.42	1.31	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.5	3.8	4.1	3.7	4.8	5.5	7.0	5.9	10.1	4.3	4.5	5.5	5.3	
EFFLUENT (MG/L)	0.1	0.1	0.2	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.05	0.06	0.12	0.21	0.06	0.08	0.09	0.10	0.11	0.11	0.12	0.09	0.09	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
- EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : LAKEFIELD
PLANT : LAKEFIELD LAGOON
WORKS NUMBER : 110001462
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 1.59 (1000 M3)

REGION : CENTRAL
DISTRICT : PETERBOROUGH
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : OTONABEE RIVER
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,318

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.00	1.41	1.36	1.64	1.61	1.20	1.19	1.20	1.25	1.27	1.64	1.57	1.36	
LAGOON DISCHARGE	ND	5.24	2.93	7.43	ND	ND	ND	ND	ND	43.21	3.34	ND	12.43	
BOD5														
INFLUENT (MG/L)	72.0	228.0	75.0	57.0	ND	124.0	233.0	30.0	228.0	ND	ND	120.0	129.7	
EFFLUENT (MG/L)	ND	ND	19.7	22.4	ND	ND	ND	ND	ND	19.1	ND	0.7	17.5	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	26.79	36.73	ND	ND	ND	ND	ND	24.25	ND	13.65	23.80	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	107.0	298.0	166.0	129.0	ND	220.0	404.0	138.0	484.0	ND	ND	156.0	233.6	
EFFLUENT (MG/L)	ND	ND	22.9	20.0	ND	ND	ND	ND	ND	98.8	ND	22.3	41.0*	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	31.14	32.80	ND	ND	ND	ND	ND	125.47	ND	35.01	55.76	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.9	7.0	4.7	2.3	ND	5.2	9.2	1.6	9.0	7.0	ND	2.8	5.4	
EFFLUENT (MG/L)	ND	ND	1.0	0.4	ND	ND	ND	ND	ND	1.2*	ND	0.4	0.8	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	1.36	0.65	ND	ND	ND	ND	ND	1.52	ND	0.62	1.09	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	NO
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NO ACTION - MARGINAL FAILURE-MONITORING LEVEL OF FAILED PARAMETER CLOSELY			1990/01/01

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : LINDSAY
PLANT : LINDSAY LAGOON
WORKS NUMBER : 110000383
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS
: AERATED CELL
: PHOSPHORUS REMOVAL-CONTINUOUS
DESIGN CAPACITY : 17.18 (1000 M3)

REGION : CENTRAL
DISTRICT : VICTORIA
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : SCUGOG RIVER
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 15,176

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	13.98	12.65	13.76	16.37	15.51	11.69	11.42	12.23	12.59	12.62	16.55	15.19	13.55	
LAGOON DISCHARGE	349.57	366.92	426.56	491.28	480.64	350.65	354.10	379.36	377.78	391.16	496.61	408.99	406.14	
BOD5														
INFLUENT (MG/L)	121.0	73.0	82.0	96.0	69.0	89.0	177.0	99.0	61.0	84.0	59.0	81.0	90.9	
EFFLUENT (MG/L)	6.6	8.7	11.3	9.9	10.9	9.9	11.8	17.0	5.8	4.2	2.9	8.7	9.0	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	92.26	110.05	155.48	162.06	169.05	115.73	134.75	207.91	73.02	53.00	47.99	114.75	121.95	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	106.0	169.0	123.0	134.0	100.0	86.0	48.3	92.0	45.5	126.0	ND	202.0	112.0	
EFFLUENT (MG/L)	6.1	8.6	9.8	6.1	17.1	16.2	16.3	32.9	7.8	5.1	ND	11.1	12.5	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	85.27	108.79	134.84	99.85	265.22	189.37	186.14	402.36	98.20	64.36	ND	146.40	169.38	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.1	8.5	6.4	5.6	5.2	8.0	5.4	5.7	4.7	5.2	6.5	8.7	6.5	
EFFLUENT (MG/L)	0.7	0.8	0.7	0.4	1.1*	0.5	0.7	0.8	0.9	0.8	0.6	0.7	0.7	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	9.78	10.12	9.63	6.54	17.06	5.84	7.99	9.78	11.33	10.09	9.93	9.23	9.49	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
NO ACTION - MARGINAL FAILURE-MONITORING LEVEL OF FAILED PARAMETER CLOSELY			1990/01/01

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : METRO TORONTO
PLANT : HIGHLAND CREEK WPCP (SCARBOROUGH)
WORKS NUMBER : 120000373
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 218.20 (1000 M3)

REGION : CENTRAL
DISTRICT : METRO TORONTO, MUN. OF
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 310,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	139.30	133.90	141.60	146.10	151.06	175.10	180.10	176.40	156.10	149.94	141.80	128.90	151.69	
BOD5														
INFLUENT (MG/L)	186.0	177.0	175.0	155.0	171.0	167.0	171.0	160.0	174.0	177.0	173.0	156.0	170.2	
EFFLUENT (MG/L)	10.8	9.8	7.0	7.4	9.4	12.7	12.3	7.9	6.0	6.8	6.7	7.9	8.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1504.44	1312.22	991.20	1081.14	1419.96	2223.77	2215.23	1393.56	936.60	1019.59	950.06	1018.31	1319.70	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	216.0	214.0	199.0	191.0	213.0	229.0	212.0	198.0	260.0	239.0	228.0	197.0	216.3	
EFFLUENT (MG/L)	20.4	22.2	12.3	14.3	15.6	21.0	19.8	20.8	12.5	16.1	13.9	23.1	17.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2841.72	2972.58	1741.68	2089.23	2356.53	3677.10	3565.98	3669.12	1951.25	2414.03	1971.02	2977.59	2684.91	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.2	5.2	4.9	5.3	5.2	5.3	4.7	4.7	5.7	5.5	4.7	4.8	5.1	
EFFLUENT (MG/L)	0.7	0.6	0.6	0.6	0.7	0.9	0.7	0.6	0.7	0.9	0.7	1.0	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	97.51	80.34	84.96	87.66	105.74	157.59	126.07	105.84	109.27	134.94	99.26	128.90	106.18	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : METRO TORONTO
PLANT : HUMBER WPCP (ETOBICOKE)
WORKS NUMBER : 120000382
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 409.14 (1000 M3)

REGION : CENTRAL
DISTRICT : METRO TORONTO, MUN. OF
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 540,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	365.10	382.20	400.30	420.33	404.00	406.44	418.30	432.71	417.64	395.07	386.00	359.87	399.00	
BODS														
INFLUENT (MG/L)	166.0	187.0	176.0	193.0	189.0	213.0	180.0	129.0	157.0	190.0	210.0	227.0	184.0	
EFFLUENT (MG/L)	5.0	7.8	6.9	3.7	3.6	3.4	3.1	7.1	5.8	11.1	14.7	9.6	6.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1825.50	2981.16	2762.07	1555.22	1454.40	1381.89	1296.73	3072.24	2422.31	4385.27	5674.20	3454.75	2713.20	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	296.0	324.0	296.0	309.0	318.0	345.0	305.0	233.0	280.0	308.0	344.0	411.0	314.1	
EFFLUENT (MG/L)	10.8	19.4	21.4	17.3	18.0	23.0	14.6	13.7	16.5	27.0	32.1	22.2	19.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3943.08	7414.68	8566.42	7271.70	7272.00	9348.12	6107.18	5928.12	6891.06	666.89	2390.60	7989.11	7860.30	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.6	8.5	7.9	7.8	8.0	9.1	7.6	6.4	7.3	7.2	8.7	8.6	7.9	
EFFLUENT (MG/L)	0.7	0.8	0.8	0.7	0.8	1.1*	0.7	0.6	0.7	1.0	0.9	0.9	0.8	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	255.57	305.76	320.24	294.23	323.20	447.08	292.81	259.62	292.34	395.07	347.40	323.88	319.20	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
NO ACTION - MARGINAL FAILURE-MONITORING LEVEL OF FAILED PARAMETER CLOSELY			

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : METRO TORONTO
PLANT : MAIN WPCP (TORONTO)
WORKS NUMBER : 120000391
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 818.28 (1000 M3)

REGION : CENTRAL
DISTRICT : METRO TORONTO, MUN. OF
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,250,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	748.00	759.20	820.90	925.90	973.99	886.40	733.00	567.81	702.00	703.00	694.00	663.00	764.77	
BOD5														
INFLUENT (MG/L)	216.0	200.0	206.0	176.0	227.0	225.0	176.0	181.0	214.0	203.0	187.0	183.0	199.5	
EFFLUENT (MG/L)	11.7	15.7	7.6	8.9	14.5	8.0	11.1	14.0	16.5	27.3	16.2	23.6	14.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	8751.60	1919.44	6238.84	8240.51	4122.85	7091.20	8136.30	7949.34	1583.00	9191.90	1242.80	5646.80	11165.64	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	362.0	292.0	376.0	316.0	318.0	302.0	267.0	305.0	296.0	219.0	235.0	246.0	294.5	
EFFLUENT (MG/L)	22.1	21.1	16.6	21.2	18.9	13.1	33.5	20.8	10.0	8.4	10.5	13.2	17.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	6530.80	6019.12	3626.94	9629.08	8408.41	1611.84	4555.50	1810.44	7020.00	5905.20	7287.00	8751.60	13383.48	
TOTAL PHOSPHORUS														
INFLUENT (MG/L)	7.4	6.9	6.7	5.8	7.4	6.5	5.1	5.2	5.5	5.1	5.1	6.4	6.1	
EFFLUENT (MG/L)	0.8	0.8	0.3	0.5	0.5	0.5	0.8	0.6	0.4	0.6	0.5	0.7	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	598.40	607.36	246.27	462.95	486.99	443.20	586.40	340.68	280.80	421.80	347.00	464.10	458.86	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: METRO TORONTO	REGION	: CENTRAL
PLANT	: NORTH TORONTO WPCP (EAST YORK)	DISTRICT	: METRO TORONTO, MUN. OF
WORKS NUMBER	: 120000364	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: CONVENTIONAL ACTIVATED SLUDGE	WATERCOURSE	: DON RIVER
	: PHOSPHORUS REMOVAL-CONTINUOUS	MINOR BASIN	: ONTARIO
	:	MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 45.46 (1000 M3)	POPULATION SERVED	: 54,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	38.20	38.10	30.70	32.40	33.79	33.70	35.60	34.20	36.50	35.79	34.50	34.90	34.87	
BOD5														
INFLUENT (MG/L)	250.0	219.0	247.0	168.0	218.0	219.0	256.0	221.0	167.0	162.0	230.0	279.0	219.7	
EFFLUENT (MG/L)	36.0	37.6	40.8	14.7	15.1	14.2	11.0	13.0	14.5	15.5	16.4	22.9	21.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1375.20	1432.56	1252.56	476.28	510.22	478.54	391.60	444.60	529.25	554.74	565.80	799.21	732.27	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	179.0	148.0	159.0	140.0	147.0	140.0	123.0	115.0	150.0	146.0	152.0	169.0	147.3	
EFFLUENT (MG/L)	29.8	50.2	48.6	10.3	8.6	6.7	5.8	4.9	6.4	5.1	10.6	17.1	17.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1138.36	1912.62	1492.02	333.72	290.59	225.79	206.48	167.58	233.60	182.52	365.70	596.79	592.79	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.2	4.6	4.5	4.7	4.9	4.8	4.2	3.9	4.9	4.7	5.0	5.3	4.7	
EFFLUENT (MG/L)	1.0	1.4*	1.6*	0.9	0.7	0.8	0.6	0.6	0.9	0.6	0.7	1.0	0.9	2
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	38.20	53.34	49.12	29.16	23.65	26.96	21.36	20.52	32.85	21.47	24.15	34.90	31.38	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
INFLUENT SEWAGE - DETERMINING SOURCE OF TOXIC LOADINGS	1988/02/01	1988/03/01	1988/04/01
INFLUENT SEWAGE - ENFORCING SEWER USE BYLAW	1988/02	1988/03	

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MIDLAND
PLANT : MIDLAND WPCP
WORKS NUMBER : 110000463
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 13.63 (1000 M3)

REGION : CENTRAL
DISTRICT : SIMCOE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : MIDLAND BAY
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 12,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	10.94	10.68	11.89	11.87	11.58	11.13	10.17	11.14	11.38	12.08	12.01	10.93	11.32	
BOD5														
INFLUENT (MG/L)	60.0	83.0	49.0	57.0	54.0	66.0	112.0	52.0	65.0	75.0	58.0	73.0	67.0	
EFFLUENT (MG/L)	4.2	5.0	4.0	4.1	3.7	2.4	5.9	3.1	3.5	3.7	3.0	2.7	3.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	45.94	53.40	47.56	48.66	42.84	26.71	60.00	34.53	39.83	44.69	36.03	29.51	43.02	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	165.0	153.0	120.0	101.0	165.0	183.0	200.0	168.0	157.0	163.0	109.0	127.0	150.9	
EFFLUENT (MG/L)	6.6	10.1	8.3	6.8	8.8	7.3	ND	ND	ND	6.8	6.5	9.4	7.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	72.20	107.86	98.68	80.71	101.90	81.24	ND	ND	ND	82.14	78.06	102.74	88.30	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.6	7.3	4.3	4.9	6.3	5.8	5.1	10.2	3.7	4.2	3.8	5.5	5.6	
EFFLUENT (MG/L)	0.5	1.0	0.6	0.5	0.6	0.9	0.5	0.7	0.3	0.4	0.3	0.7	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	5.47	10.68	7.13	5.93	6.94	10.01	5.08	7.79	3.41	4.83	3.60	7.65	6.79	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MILLBROOK
PLANT : MILLBROOK WPCP
WORKS NUMBER : 110002238
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 1.13 (1000 M3)

REGION : CENTRAL
DISTRICT : PETERBOROUGH
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BAXTER CREEK
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,026

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.94	0.95	1.04	1.22	1.00	0.82	0.80	0.74	0.78	0.93	1.16	0.95	0.94	
BOD5														
INFLUENT (MG/L)	72.0	79.0	104.0	64.2	68.0	75.0	248.0	188.0	125.0	183.0	40.0	40.0	107.2	
EFFLUENT (MG/L)	4.6	7.0	5.5	6.2	11.2	3.2	3.8	4.6	1.8	3.4	5.0	5.0	5.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	4.32	6.65	5.72	7.56	11.20	2.62	3.04	3.40	1.40	3.16	5.80	4.75	4.79	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	59.0	74.0	116.0	58.2	71.0	73.0	158.0	291.0	102.0	136.0	65.0	65.0	105.7	
EFFLUENT (MG/L)	6.2	7.9	6.2	11.0	9.3	5.8	4.6	4.0	2.1	4.9	4.8	4.8	6.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	5.82	7.50	6.44	13.42	9.30	4.75	3.68	2.96	1.63	4.55	5.56	4.56	5.64	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.3	4.1	5.3	2.9	3.4	4.1	4.9	6.2	5.1	5.9	4.6	4.6	4.5	
EFFLUENT (MG/L)	0.1	0.3	0.2	0.2	0.3	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.09	0.28	0.20	0.24	0.30	0.16	0.08	0.14	0.15	0.09	0.11	0.09	0.19	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MILTON
PLANT : MILTON WPCP
WORKS NUMBER : 120001014
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
DESIGN CAPACITY : 12.91 (1000 M3)

REGION : CENTRAL
DISTRICT : HALLIBURTON, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : OAKVILLE CREEK
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 23,203

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	9.60	10.20	11.60	11.60	10.50	9.80	9.50	10.20	10.10	10.30	11.20	9.90	10.38	
BOD5														
INFLUENT (MG/L)	208.0	213.0	218.0	185.0	189.0	160.0	140.0	115.0	220.0	156.0	152.0	221.0	181.4	
EFFLUENT (MG/L)	4.9	ND	4.8	3.2	1.2	0.9	0.8	0.7	0.8	0.8	1.6	1.0	1.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	47.04	ND	55.68	37.12	12.60	8.82	7.60	7.14	8.08	8.24	17.92	9.90	19.72	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	150.0	153.0	144.0	161.0	142.0	152.0	149.0	170.0	301.0	168.0	137.0	178.0	167.1	
EFFLUENT (MG/L)	1.0	1.0	0.8	4.6	2.9	2.0	1.9	1.3	2.3	1.8	2.5	1.7	2.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	9.60	10.20	9.28	53.36	30.45	19.60	18.05	13.26	23.23	18.54	28.00	16.83	20.76	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.0	7.3	6.2	6.8	7.2	6.3	6.1	6.7	9.2	7.5	8.6	8.0	7.1	
EFFLUENT (MG/L)	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.6	0.4	0.2	0.3	0.2	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	1.92	2.04	3.48	2.32	3.15	2.94	1.90	6.12	4.04	2.06	3.36	1.98	3.11	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 CERTIFICATE OF APPROVAL ASSESSMENT

MUNICIPALITY : MISSISSAUGA
PLANT : CLARKSON WPCP SOUTH-PEEL SYSTEM
WORKS NUMBER : 110001328
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 109.10 (1000 M3)

REGION : CENTRAL
DISTRICT : PEEL, REG. MUN.
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : LAKE ONTARIO
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 150,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	74.38	76.64	80.47	83.08	81.53	82.29	77.01	77.16	78.51	78.70	84.12	78.37	79.36	
BOD5														
INFLUENT (MG/L)	139.9	227.0	246.9	249.0	167.0	241.5	189.0	210.0	213.3	229.3	239.0	176.0	210.7	
EFFLUENT (MG/L)	17.2	11.6	11.7	13.2	15.7	18.7	17.6	21.6	20.9	15.1	15.5	13.1	16.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1279.33	889.02	941.49	1096.65	1280.02	1538.82	1355.37	1666.65	1640.85	1188.37	1303.86	1026.64	1269.76	
LOADING LIMIT (KG/D)													2725.00	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	240.0	226.5	312.4	283.3	179.4	213.5	194.3	217.0	230.0	215.7	169.3	167.2	220.7	
EFFLUENT (MG/L)	14.8	10.0	8.2	8.1	8.6	8.0	8.5	10.3	7.7	6.6	10.1	7.8	9.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1100.82	766.40	659.85	672.94	701.15	658.32	654.58	794.74	604.52	519.42	849.61	611.28	722.18	
LOADING LIMIT (KG/D)													2725.00	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.2	9.7	9.8	7.7	7.6	7.7	6.7	7.9	8.9	8.6	7.8	6.5	8.1	
EFFLUENT (MG/L)	1.1	0.9	0.7	0.7	0.8	0.7	0.8	0.9	0.7	0.8	1.2	0.9	0.9	
CONCENTRATION LIMIT (MG/L)													1.0	
LOADING (KG/D)	81.81	68.97	56.32	58.15	65.22	57.60	61.60	69.44	54.95	62.96	100.94	70.53	71.42	
LOADING LIMIT (KG/D)													109.00	

SUMMARY

PARM	CRITERIA	LOADING	COMPLIES WITH CONC	LOADING
BOD	25.0 MG/L	2725.00 KG/D	YES	YES
SS	25.0 MG/L	2725.00 KG/D	YES	YES
TP	1.0 MG/L	109.00 KG/D	YES	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED ANNUALLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - MINOR PROCESS/OPERATIONAL MODIFICATION	1989	1989	1989

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MISSISSAUGA
PLANT : CLARKSON WPCP SOUTH-PEEL SYSTEM
WORKS NUMBER : 110001328
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 109.10 (1000 M3)

REGION : CENTRAL
DISTRICT : PEEL, REG. MUN.
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : LAKE ONTARIO
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 150,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	74.38	76.64	80.47	83.08	81.53	82.29	77.01	77.16	78.51	78.70	84.12	78.37	79.36	
BOD5														
INFLUENT (MG/L)	139.9	227.0	246.9	249.0	167.0	241.5	189.0	210.0	213.3	229.3	239.0	176.0	210.7	
EFFLUENT (MG/L)	17.2	11.6	11.7	13.2	15.7	18.7	17.6	21.6	20.9	15.1	15.5	13.1	16.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1279.33	889.02	941.49	1096.65	1280.02	1538.82	1355.37	1666.65	1640.85	1188.37	1303.86	1026.64	1269.76	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	240.0	226.5	312.4	283.3	179.4	213.5	194.3	217.0	230.0	215.7	169.3	167.2	220.7	
EFFLUENT (MG/L)	14.8	10.0	8.2	8.1	8.6	8.0	8.5	10.3	7.7	6.6	10.1	7.8	9.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1100.82	766.40	659.85	672.94	701.15	658.32	654.58	794.74	604.52	519.42	849.61	611.28	722.18	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.2	9.7	9.8	7.7	7.6	7.7	6.7	7.9	8.9	8.6	7.8	6.5	8.1	
EFFLUENT (MG/L)	1.1*	0.9	0.7	0.7	0.8	0.7	0.8	0.9	0.7	0.8	1.2*	0.9	0.9	2
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	81.81	68.97	56.32	58.15	65.22	57.60	61.60	69.44	54.95	62.96	100.94	70.53	71.42	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - MINOR PROCESS/OPERATIONAL MODIFICATION	1989	1989	1989

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MISSISSAUGA
PLANT : LAKEVIEW WPCP SOUTH-PEEL SYSTEM
WORKS NUMBER : 110001284
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 284.12 (1000 M3)

REGION : CENTRAL
DISTRICT : PEEL, REG. MUN.
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : LAKE ONTARIO
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 470,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	246.48	250.60	257.42	266.74	254.73	259.50	255.55	250.51	259.01	253.52	264.35	243.21	255.14	
BOD5														
INFLUENT (MG/L)	364.7	261.1	257.4	243.6	147.1	185.5	226.6	212.2	239.9	218.7	213.8	268.9	236.6	
EFFLUENT (MG/L)	21.8	12.1	13.0	14.0	8.9	23.0	17.7	9.6	14.4	15.4	11.2	27.7	15.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	5373.26	3032.26	3346.46	3734.36	2267.09	5968.50	4523.23	2404.89	3729.74	3904.20	2960.72	6736.91	4005.70	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	207.7	241.8	221.9	188.0	222.4	181.8	247.8	226.7	231.5	215.2	271.8	284.8	228.5	
EFFLUENT (MG/L)	13.6	14.9	9.9	12.2	8.1	12.5	7.8	7.8	9.8	7.3	9.0	8.7	10.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3352.12	3733.94	2548.45	3254.22	2063.31	3243.75	1993.29	1953.97	2538.29	1850.69	2379.15	2115.92	2576.91	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.8	5.4	23.5	5.6	5.4	5.4	5.7	4.2	4.7	4.1	4.6	5.9	6.7	
EFFLUENT (MG/L)	0.5	0.5	0.4	0.5	0.7	0.7	0.5	0.6	0.6	0.3	0.5	0.7	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	123.24	125.30	102.96	133.37	178.31	181.65	127.77	150.30	155.40	76.05	132.17	170.24	127.57	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MUSKOKA LAKES
PLANT : BALA WPCP
WORKS NUMBER : 120000792
TREATMENT : COMMUNAL SEPTIC TANK
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT FILTRATION
DESIGN CAPACITY : 0.09 (1000 M3)

REGION : CENTRAL
DISTRICT : MUSKOKA, DIST. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LONG LAKE
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 113

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.03	0.04	0.04	0.08	0.07	0.07	0.07	0.08	0.09	0.10	0.12	0.05	0.07	
BOD5														
INFLUENT (MG/L)	81.0	28.0	30.0	32.0	16.0	62.0	180.0	442.0	119.0	33.0	21.0	48.0	91.0	
EFFLUENT (MG/L)	1.7	0.9	4.0	1.6	1.8	5.0	5.7	4.1	1.4	2.5	6.4	3.6	3.2	
LOADING (KG/D)	0.05	0.03	0.16	0.12	0.12	0.35	0.39	0.32	0.12	0.25	0.76	0.18	0.22	
PERCENT REMOVAL	98	97	87	95	89	92	97	99	99	92	70	93	96	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	62.0	44.0	48.0	27.0	23.0	45.0	92.0	82.0	67.0	31.0	20.0	64.0	50.4	
EFFLUENT (MG/L)	8.2	48.8	36.8	77.4	38.5	28.5	52.2	22.9	48.3	38.1	65.8	30.0	41.3	
LOADING (KG/D)	0.24	1.95	1.47	6.19	2.69	1.99	3.65	1.83	4.34	3.81	7.89	1.50	2.89	
PERCENT REMOVAL	87	ND	23	ND	ND	37	43	72	28	ND	ND	53	18*	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.7	4.2	2.5	2.5	2.1	4.1	5.2	4.9	3.7	1.8	0.8	10.8	3.9	
EFFLUENT (MG/L)	0.1	0.1	0.2	0.1	0.3		0.1	0.2	0.2	0.3	0.3	0.1	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)					0.02			0.01	0.01	0.03	0.03		0.01	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	50%	YES
SS	70%	NO
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - ENVIRONMENTAL ASSESSMENT BEING CONDUCTED	1991	1991	1991

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MUSKOKA LAKES
PLANT : PORT CARLING WPCP
WORKS NUMBER : 110002229
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
DESIGN CAPACITY : 0.54 (1000 M3)

REGION : CENTRAL
DISTRICT : MUSKOKA, DIST. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : INDIAN RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 700

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.23	0.32	0.23	0.30	0.22	0.20	0.26	0.26	0.18	0.18	0.22	0.17	0.23	
BOD5														
INFLUENT (MG/L)	117.0	91.0	28.0	53.0	62.0	270.0	49.0	168.0	ND	142.0	124.0	32.0	103.3	
EFFLUENT (MG/L)	1.5	4.4	5.5	ND	2.1	1.5	1.2	4.0	ND	0.7	1.1	0.9	2.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.34	1.40	1.26	ND	0.46	0.30	0.31	1.04	ND	0.12	0.24	0.15	0.53	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	109.0	159.0	17.0	40.0	91.0	218.0	35.0	107.0	ND	191.0	338.0	62.0	124.3	
EFFLUENT (MG/L)	1.4	ND	3.4	ND	2.2	ND	4.0	1.9	ND	2.2	1.3	1.3	2.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.32	ND	0.78	ND	0.48	ND	1.04	0.49	ND	0.39	0.28	0.22	0.51	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.7	5.9	2.7	1.7	3.6	11.2	2.6	7.5	ND	6.0	6.1	3.2	4.9	
EFFLUENT (MG/L)		0.2	0.1	ND	0.1	0.1	0.9	0.4	ND	0.1			0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)		0.06	0.02	ND	0.02	0.02	0.23	0.10	ND	0.01			0.05	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	INSUFFICIENT DATA
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NEWCASTLE
PLANT : GRAHAM CREEK WPCP (NEWCASTLE)
WORKS NUMBER : 110001569
TREATMENT : EXTENDED AERATION
:
:
DESIGN CAPACITY : 1.81 (1000 M3)

REGION : CENTRAL
DISTRICT : DURHAM, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,866

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.13	1.07	1.34	1.62	1.23	1.20	0.93	0.93	1.04	1.15	1.58	1.27	1.21	
BOD5														
INFLUENT (MG/L)	104.0	117.0	103.0	123.0	99.0	111.0	135.0	114.0	101.0	139.0	95.0	60.0	108.4	
EFFLUENT (MG/L)	5.8	5.6	26.4	25.6	11.6	1.9	31.0	6.1	1.2	14.0	8.3	9.3	12.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	6.55	5.99	35.37	41.47	14.26	2.28	28.83	5.67	1.24	16.10	13.11	11.81	14.76	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	25.0	127.0	103.0	109.0	115.0	135.0	227.0		109.0	177.0	76.0	99.0	108.5	
EFFLUENT (MG/L)	12.8	8.1	13.4	11.6	21.6	21.5	19.2	9.4	5.8	8.4	12.5	9.9	12.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	14.46	8.66	17.95	18.79	26.56	25.80	17.85	8.74	6.03	9.66	19.75	12.57	15.61	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.0	8.1	7.8	5.6	4.6	5.2	9.5	7.8	5.2	7.4	5.3	4.2	6.2	
EFFLUENT (MG/L)	2.6	3.0	3.3	2.5	ND	3.2	3.2	0.6	0.5	ND	1.5	1.6	2.2	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	2.93	3.21	4.42	4.05	ND	3.84	2.97	0.55	0.52	ND	2.37	2.03	2.66	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NEWCASTLE
PLANT : PORT DARLING WPCP
WORKS NUMBER : 120003076
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 4.54 (1000 M3)

REGION : CENTRAL
DISTRICT : DURHAM, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 12,831

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	7.23	7.75	8.92	8.84	7.24	6.29	6.97	6.32	6.68	7.34	8.70	7.77	7.50	
BOD5														
INFLUENT (MG/L)	126.0	97.0	108.0	104.0	152.0	80.0	123.0	ND	109.0	112.0	106.0	110.0	111.5	
EFFLUENT (MG/L)	13.6	23.9	15.3	12.0	7.5	9.6	10.9	ND	14.0	8.0	27.7	13.8	14.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	98.32	185.22	136.47	106.08	54.30	60.38	75.97	ND	93.52	58.72	240.99	107.22	106.50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	123.0	122.0	84.0	137.0	177.0	54.0	170.0	ND	259.0	155.0	80.0	104.0	133.2	
EFFLUENT (MG/L)	12.4	12.2	12.5	12.3	11.1	8.9	9.5	14.5	11.6	9.7	11.5	14.7	11.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	89.65	94.55	111.50	108.73	80.36	55.98	66.21	91.64	77.48	71.19	100.05	114.21	87.75	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.5	3.9	5.1	3.5	4.2	8.1	6.2	7.3	6.1	4.7	4.7	5.2	5.4	
EFFLUENT (MG/L)	0.7	0.5	0.7	0.5	0.4	0.7	0.6	1.0	0.8	0.5	0.8	0.9	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	5.06	3.87	6.24	4.42	2.89	4.40	4.18	6.32	5.34	3.67	6.96	6.99	5.25	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NORWOOD
PLANT : NORWOOD WPCP
WORKS NUMBER : 110001499
TREATMENT : OXIDATION DITCH
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 0.72 (1000 M3)

REGION : CENTRAL
DISTRICT : PETERBOROUGH
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : OUSE RIVER
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,135

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.50	0.48	0.52	0.59	0.54	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.54	
BOD5														
INFLUENT (MG/L)	107.0	69.4	26.8	67.9	97.3	68.5	22.0	71.5	143.0	120.0	145.0	ND	85.3	
EFFLUENT (MG/L)	10.0	9.7	11.7	9.5	6.5	12.6	4.9	4.5	4.5	4.1	4.4	ND	7.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	5.00	4.65	6.08	5.60	3.51	6.93	2.69	2.47	2.47	2.25	2.42	ND	4.05	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	91.1	35.0	22.6	46.3	144.0	69.5	28.0	110.0	159.5	130.0	120.0	187.0	95.3	
EFFLUENT (MG/L)	10.5	16.6	8.7	11.9	5.4	6.3	4.3	4.0	4.6	4.4	2.5	1.6	6.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	5.25	7.96	4.52	7.02	2.91	3.46	2.36	2.20	2.53	2.42	1.37	0.88	3.62	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.8	2.9	2.1	2.1	6.5	3.5	2.2	6.2	6.7	6.2	8.1	9.3	5.1	
EFFLUENT (MG/L)	0.5	0.5	0.5	0.6	0.7	0.5	0.3	0.4	0.6	0.3	0.5	0.3	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.25	0.24	0.26	0.35	0.37	0.27	0.16	0.22	0.33	0.16	0.27	0.16	0.27	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : OAKVILLE
PLANT : SOUTH EAST WPCP
WORKS NUMBER : 120000998
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 22.73 (1000 M3)

REGION : CENTRAL
DISTRICT : HALLIBURTON, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 21,900

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	13.44	13.40	14.00	14.70	14.60	13.80	13.10	12.80	13.60	16.80	19.00	17.60	14.74	
BOD5														
INFLUENT (MG/L)	148.0	136.0	155.0	139.0	117.0	157.0	105.0	138.0	135.0	160.0	210.0	145.0	145.4	
EFFLUENT (MG/L)	1.9	4.5	6.4	2.7	1.9	1.0	0.2	3.7	2.2	9.0	6.5	12.8	4.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	25.53	60.30	89.60	39.69	27.74	13.80	2.62	47.36	29.92	151.20	123.50	225.28	64.86	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	169.0	145.0	195.0	139.0	148.0	185.0	159.0	193.0	82.0	158.0	148.0	129.0	154.2	
EFFLUENT (MG/L)	2.1	9.6	6.3	4.7	6.8	5.0	5.0	4.0	2.2	6.0	6.3	8.2	5.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	28.22	128.64	88.20	69.09	99.28	69.00	65.50	51.20	29.92	100.80	119.70	144.32	81.07	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.1	4.8	5.9	6.2	5.9	8.5	6.2	7.2	6.5	8.0	5.7	6.3	6.5	
EFFLUENT (MG/L)	0.5	0.5	0.5	0.5	0.7	0.8	0.4	0.6	0.3	0.4	0.3	0.6	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	6.72	6.70	7.00	7.35	10.22	11.04	5.24	7.68	4.08	6.72	5.70	10.56	7.37	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
M - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: OAKVILLE	REGION	: CENTRAL
PLANT	: SOUTH WEST WPCP	DISTRICT	: HALLIBURTON, REG. MUN.
WORKS NUMBER	: 120001005	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: CONVENTIONAL ACTIVATED SLUDGE	WATERCOURSE	: LAKE ONTARIO
	: PHOSPHORUS REMOVAL-CONTINUOUS	MINOR BASIN	: ONTARIO
	:	MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 47.73 (1000 M3)	POPULATION SERVED	: 58,200

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	32.70	36.30	33.90	36.00	34.80	32.00	32.20	32.60	ND	33.60	36.49	30.50	33.74	
BOD5														
INFLUENT (MG/L)	365.0	223.0	208.0	237.0	329.0	265.0	210.0	343.0	ND	299.0	283.0	326.0	280.7	
EFFLUENT (MG/L)	9.6	11.7	7.4	9.3	10.4	6.0	8.0	7.6	ND	11.2	8.2	7.4	8.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	313.92	424.71	250.86	334.80	361.92	192.00	257.60	247.76	ND	376.32	299.21	225.70	296.91	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	289.0	381.0	218.0	154.0	162.0	231.0	164.0	287.0	ND	232.0	266.0	178.0	232.9	
EFFLUENT (MG/L)	11.4	8.9	14.7	11.8	9.9	9.0	9.1	8.0	ND	10.6	8.5	9.5	10.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	372.78	323.07	498.33	424.80	344.52	288.00	293.02	260.80	ND	356.16	310.16	289.75	340.77	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.6	8.0	7.2	3.5	6.8	8.0	6.7	7.6	ND	8.6	7.0	8.4	7.1	
EFFLUENT (MG/L)	0.6	0.4	0.4	0.9	0.5	0.6	0.6	0.9	ND	0.7	0.7	0.5	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	19.62	14.52	13.56	32.40	17.40	19.20	19.32	29.34	ND	23.52	25.54	15.25	20.24	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : OMEMEE
PLANT : OMEMEE LAGOON
WORKS NUMBER : 110001630
TREATMENT : LAGOON AND SPRAY
: NO DISCHARGE
:
DESIGN CAPACITY : 0.61 (1000 M3)

REGION : CENTRAL
DISTRICT : VICTORIA
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : NO DISC.TO SURFACE WATER
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 653

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.23	0.25	0.31	0.41	0.29	0.20	0.17	0.17	0.19	0.22	0.33	0.25	0.25	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	197.0	105.0	260.0	152.0	94.0	207.0	246.0	262.0	225.0	267.0	140.0	ND	195.9	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	194.0	132.0	302.0	229.0	117.0	164.0	128.0	306.0	124.0	253.0	106.0	146.0	183.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.9	6.0	8.5	6.7	5.4	8.8	9.8	12.8	8.1	8.3	5.5	8.5	7.9	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	NA	NO DIRECT DISCHARGE
SS	NA	NO DIRECT DISCHARGE
TP	NA	NO DIRECT DISCHARGE

NOTE:
BOD - HAS NO CRITERIA
SS - HAS NO CRITERIA
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 CERTIFICATE OF APPROVAL ASSESSMENT

MUNICIPALITY : ORILLIA
PLANT : ORILLIA WPCP
WORKS NUMBER : 120000569
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 18.18 (1000 M3)

REGION : CENTRAL
DISTRICT : SIMCOE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE SIMCOE
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 24,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	17.44	18.14	20.99	24.25	18.75	16.23	15.65	16.91	15.78	14.57	21.10	17.59	18.12	
BOD5														
INFLUENT (MG/L)	93.0	100.0	140.0	112.0	100.0	103.0	159.0	125.0	50.0	59.0	80.0	ND	101.9	
EFFLUENT (MG/L)	12.9	5.8	8.1	14.3	27.7	25.8	25.0	10.4	ND	24.2	20.0	ND	17.4*	
CONCENTRATION LIMIT (MG/L)													15.0	
LOADING (KG/D)	224.97	105.21	170.01	346.77	519.37	418.73	391.25	175.86	ND	352.59	422.00	ND		
LOADING LIMIT (KG/D)													315.29	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	97.0	50.0	82.0	99.0	ND	94.0	93.0	103.0	151.0	145.0	167.0	121.0	109.3	
EFFLUENT (MG/L)	18.2	22.9	13.0	14.6	ND	14.7	7.1	18.4	14.0	14.1	14.7	13.1	15.0	
CONCENTRATION LIMIT (MG/L)													15.0	
LOADING (KG/D)	317.40	415.40	272.87	354.05	ND	238.58	111.11	311.14	220.92	205.43	310.17	230.42	271.80	
LOADING LIMIT (KG/D)														
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.2	4.9	5.0	3.9	5.2	4.1	6.4	6.2	1.7	2.4	0.1	2.9	3.9	
EFFLUENT (MG/L)	1.4	0.8	1.5	0.4	2.0	0.2	0.1	0.2	0.5	0.6	0.2	0.5	0.7*	
CONCENTRATION LIMIT (MG/L)													0.3	
LOADING (KG/D)	24.41	14.51	31.48	9.70	37.50	3.24	1.56	3.38	7.89	8.74	4.22	8.79	12.68*	
LOADING LIMIT (KG/D)													8.21	

SUMMARY

PARM	CRITERIA	LOADING	COMPLIES WITH CONC	LOADING
BOD	15.0 MG/L	NA	NO	NA
SS	15.0 MG/L	NA	YES	NA
TP	0.3 MG/L	8.21 KG/D	NO	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED ANNUALLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ORILLIA
PLANT : ORILLIA WPCP
WORKS NUMBER : 120000569
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 18.18 (1000 M3)

REGION : CENTRAL
DISTRICT : SIMCOE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE SIMCOE
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 24,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	17.44	18.14	20.99	24.25	18.75	16.23	15.65	16.91	15.78	14.57	21.10	17.59	18.12	
BOD5														
INFLUENT (MG/L)	93.0	100.0	140.0	112.0	100.0	103.0	159.0	125.0	50.0	59.0	80.0	ND	101.9	
EFFLUENT (MG/L)	12.9	5.8	8.1	14.3	27.7	25.8	25.0	10.4	ND	24.2	20.0	ND	17.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	224.97	105.21	170.01	346.77	519.37	418.73	391.25	175.86	ND	352.59	422.00	ND	315.29	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	97.0	50.0	82.0	99.0	ND	94.0	93.0	103.0	151.0	145.0	167.0	121.0	109.3	
EFFLUENT (MG/L)	18.2	22.9	13.0	14.6	ND	14.7	7.1	18.4	14.0	14.1	14.7	13.1	15.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	317.40	415.40	272.87	354.05	ND	238.58	111.11	311.14	220.92	205.43	310.17	230.42	271.80	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.2	4.9	5.0	3.9	5.2	4.1	6.4	6.2	1.7	2.4	0.1	2.9	3.9	
EFFLUENT (MG/L)	1.4*	0.8	1.5*	0.4	2.0*	0.2	0.1	0.2	0.5	0.6	0.2	0.5	0.7	3
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	24.41	14.51	31.48	9.70	37.50	3.24	1.56	3.38	7.89	8.74	4.22	8.79	12.68	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : OSHAWA
PLANT : HARMONY CR WPCP NO 1
WORKS NUMBER : 120000774
TREATMENT : TRICKLING FILTER
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 34.09 (1000 M3)

REGION : CENTRAL
DISTRICT : DURHAM, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE :
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 102,938

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	21.40	22.35	22.89	22.89	20.56	20.25	18.84	18.67	18.96	19.28	19.18	18.10	20.28	
BOD5														
INFLUENT (MG/L)	119.0	236.0	133.0	112.0	124.0	203.0	111.0	208.0	157.0	110.0	87.0	151.0	145.9	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	68.0	177.0	140.0	112.0	157.0	207.0	238.0	361.0	190.0	191.0	296.0	182.0	193.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.1	5.2	4.2	3.8	5.9	7.0	6.4	8.0	6.4	5.6	4.7	6.7	5.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : OSHAWA
PLANT : HARMONY CR WPCP NO 2
WORKS NUMBER : 120001657
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 34.09 (1000 M3)

REGION : CENTRAL
DISTRICT : DURHAM, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE :
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 51,469

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	26.81	25.86	29.53	29.53	26.02	24.34	23.25	23.71	25.30	26.14	29.39	31.81	26.81	
BOD5														
INFLUENT (MG/L)	132.0	159.0	244.0	153.0	135.0	184.0	221.0	245.0	728.0	274.0	125.0	196.0	233.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	123.0	123.0	137.0	168.0	168.0	259.0	224.0	237.0	1,160.0	448.0	157.0	160.0	280.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.3	5.9	6.7	6.5	7.6	8.4	7.0	6.6	10.4	10.2	5.4	7.4	7.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : OSHAWA
PLANT : HARMONY CREEK 1&2 COMBINED EFFLUENT
WORKS NUMBER : 120003254
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: TRICKLING FILTER
: PHOSPHORUS REMOVAL-CONTINUOUS
DESIGN CAPACITY : 0.00 (1000 M3)

REGION : CENTRAL
DISTRICT : DURHAM, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : L ONT.(COMBINED EFF.1&2)
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED :

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	48.21	48.21	52.43	52.43	48.21	44.59	42.09	42.38	44.27	45.42	48.57	42.92	46.64	
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	15.1	12.5	24.5	19.0	16.8	32.3	20.6	16.0	16.6	20.1	20.2	23.1	19.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	727.97	602.62	1284.53	996.17	809.92	1440.25	867.05	678.08	734.88	912.94	981.11	991.45	918.81	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	16.4	20.4	15.4	16.4	16.7	21.8	18.2	17.6	13.1	15.9	13.6	18.2	17.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	790.64	983.48	807.42	859.85	805.10	972.06	766.03	745.88	579.93	722.17	660.55	781.14	792.88	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	0.7	0.8	0.4	0.4	0.6	0.9	0.9	1.0	0.8	0.7	0.6	0.8	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	33.74	38.56	20.97	20.97	28.92	40.13	37.88	42.38	35.41	31.79	29.14	34.33	32.65	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PENETANGUISHENE
PLANT : FOX ST. WPCP
WORKS NUMBER : 120001960
TREATMENT : CONTACT STABILIZATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 1.50 (1000 M3)

REGION : CENTRAL
DISTRICT : SIMCOE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : PENETANGUISHENE HARBOUR
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.99	0.99	1.09	1.14	1.05	0.92	0.70	0.79	0.91	0.88	1.07	1.02	0.96	
BOD5														
INFLUENT (MG/L)	130.0	96.0	125.0	76.0	89.0	77.0	484.0	216.0	199.0	116.0	91.0	156.0	154.6	
EFFLUENT (MG/L)	3.7	1.7	3.5	4.0	9.8	ND	1.4	1.4	2.0	2.1	5.4	ND	3.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.66	1.68	3.81	4.56	10.29	ND	0.98	1.10	1.82	1.84	5.77	ND	3.36	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	187.0	137.0	231.0	142.0	ND	165.0	196.0	200.0	401.0	170.0	114.0	ND	194.3	
EFFLUENT (MG/L)	1.8	3.9	19.2	6.8	8.6	12.3	6.2	4.4	7.7	7.7	7.5	17.4	8.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.78	3.86	20.92	7.75	9.03	11.31	4.34	3.47	7.00	6.77	8.02	17.74	8.26	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.5	6.6	7.0	3.4	4.4	5.0	5.0	4.5	6.7	5.9	4.7	5.5	5.4	
EFFLUENT (MG/L)	0.6	0.3	0.7	0.4	ND	ND	0.5	0.7	0.2	0.4	0.5	0.8	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.59	0.29	0.76	0.45	ND	ND	0.35	0.55	0.18	0.35	0.53	0.81	0.48	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PENETANGUISHENE
PLANT : PENETANGUISHENE WPCP
WORKS NUMBER : 120000541
TREATMENT : CONTACT STABILIZATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 3.00 (1000 M3)

REGION : CENTRAL
DISTRICT : SIMCOE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : PENETANG BAY
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 4,300

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.10	ND	3.87	3.32	2.63	2.49	2.49	2.52	2.60	2.62	2.96	2.68	2.84	
BOD5														
INFLUENT (MG/L)	79.0	93.0	94.0	80.0	49.0	43.0	119.0	92.0	101.0	105.0	105.0	97.0	88.1	
EFFLUENT (MG/L)	7.0	8.5	10.9	5.0	9.3	ND	11.0	1.0	5.5	7.4	7.1	4.3	7.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	21.70	ND	42.18	16.60	24.45	ND	27.39	2.52	14.30	19.38	21.01	11.52	19.88	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	103.0	135.0	194.0	108.0	93.0	143.0	140.0	138.0	102.0	180.0	59.0	76.0	122.6	
EFFLUENT (MG/L)	9.4	7.0	11.1	4.0	3.0	2.0	5.4	7.4	8.6	4.0	7.0	3.5	6.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	29.14	ND	42.95	13.28	7.89	4.98	13.44	18.64	22.36	10.48	20.72	9.38	17.04	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.2	3.8	5.1	4.0	3.1	4.8	4.0	4.7	4.1	5.3	4.0	4.0	4.3	
EFFLUENT (MG/L)	0.7	0.7	0.7	0.4	0.2	ND	0.4	1.3*	0.8	0.3	0.7	0.8	0.6	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	2.17	ND	2.70	1.32	0.52	ND	0.99	3.27	2.08	0.78	2.07	2.14	1.70	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PERCY
PLANT : WARKWORTH LAGOON
WORKS NUMBER : 120001933
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 0.39 (1000 M3)

REGION : CENTRAL
DISTRICT : NORTHUMBERLAND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : MILL CREEK
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 457

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.25	0.24	0.32	0.31	0.27	0.25	0.24	0.24	0.24	0.25	0.27	0.26	0.26	
LAGOON DISCHARGE	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	170.0	74.0	ND	89.0	ND	ND	135.0	ND	ND	86.0	ND	110.8	
EFFLUENT (MG/L)	ND	ND	ND	7.8	11.7	ND	ND	ND	ND	ND	ND	ND	9.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	2.41	3.15	ND	ND	ND	ND	ND	ND	ND	2.55	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	110.0	62.0	ND	99.0	ND	ND	177.0	ND	ND	68.0	78.0	99.0	
EFFLUENT (MG/L)	ND	ND	ND	35.0	33.9	ND	ND	ND	ND	ND	ND	ND	34.5*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	10.85	9.15	ND	ND	ND	ND	ND	ND	ND	8.97	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	8.3	4.0	ND	7.3	ND	ND	5.8	ND	ND	3.8	3.9	5.5	
EFFLUENT (MG/L)	ND	ND	ND	0.6	0.6	ND	ND	ND	ND	ND	ND	ND	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	0.18	0.16	ND	ND	ND	ND	ND	ND	ND	0.16	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	NO
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NO ACTION - MARGINAL FAILURE-MONITORING LEVEL OF FAILED PARAMETER CLOSELY	1989/01		1989/01

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PETERBOROUGH
PLANT : PETERBOROUGH WPCP
WORKS NUMBER : 120000676
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 68.19 (1000 M3)

REGION : CENTRAL
DISTRICT : PETERBOROUGH
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : OTONABEE RIVER
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 62,945

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	47.54	46.28	48.42	58.67	50.91	45.19	40.79	42.71	41.58	43.88	47.45	43.43	46.40	
BOD5														
INFLUENT (MG/L)	104.0	120.0	119.0	96.0	96.0	93.0	99.0	101.0	105.0	110.0	95.0	108.0	103.8	
EFFLUENT (MG/L)	13.9	10.1	11.1	7.5	7.5	3.4	2.1	3.7	6.0	4.5	15.0	11.2	8.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	660.80	467.42	537.46	440.02	381.82	153.64	85.65	158.02	249.48	197.46	711.75	486.41	371.20	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	139.0	130.0	128.0	107.0	121.0	124.0	132.0	144.0	148.0	123.0	112.0	122.0	127.5	
EFFLUENT (MG/L)	7.0	12.0	9.0	6.0	6.0	5.0	4.0	4.0	10.0	6.0	7.0	9.0	7.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	332.78	555.36	435.78	352.02	305.46	225.95	163.16	170.84	415.80	263.28	332.15	390.87	329.44	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.7	4.6	4.6	3.8	4.4	4.1	4.5	4.9	4.8	4.6	4.6	5.2	4.6	
EFFLUENT (MG/L)	1.0	1.0	0.9	0.7	0.8	1.0	0.9	1.0	1.0	0.8	0.9	0.9	0.9	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	47.54	46.28	43.57	41.06	40.72	45.19	36.71	42.71	41.58	35.10	42.70	39.08	41.76	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PICKERING
PLANT : DUFFIN CREEK WPCP (YORK-DURHAM)
WORKS NUMBER : 120001915
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 181.84 (1000 M3)

REGION : CENTRAL
DISTRICT : DURHAM, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 64,386

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	177.52	176.86	190.67	197.83	189.50	184.88	181.44	183.93	192.19	191.01	200.12	183.50	187.45	
BOD5														
INFLUENT (MG/L)	161.0	121.0	131.0	142.0	185.0	164.0	150.0	145.0	139.0	136.0	123.0	198.0	149.6	
EFFLUENT (MG/L)	26.9	21.3	16.5	22.3	35.7	27.7	25.0	16.8	22.2	22.1	27.1	28.4	24.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	4775.28	3767.11	3146.05	4411.60	6765.15	5121.17	4536.00	3090.02	4266.61	4221.32	5423.25	5211.40	4555.04	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	285.0	182.0	204.0	205.0	258.0	206.0	283.0	230.0	202.0	157.0	139.0	240.0	215.9	
EFFLUENT (MG/L)	16.6	16.1	15.9	20.0	21.3	14.6	8.6	10.5	9.5	17.9	9.4	18.8	14.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2946.83	2847.44	3031.65	3956.60	4036.35	2699.24	1560.38	1931.26	1825.80	3419.07	1881.12	3449.80	2793.01	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.7	6.4	6.0	6.1	6.9	6.9	6.3	5.7	5.0	5.6	6.0	7.3	6.4	
EFFLUENT (MG/L)	1.2*	0.8	1.0	0.8	0.9	0.9	0.6	0.9	0.8	1.0	0.7	0.7	0.9	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	213.02	141.48	190.67	158.26	170.55	166.39	108.86	165.53	153.75	191.01	140.08	128.45	168.71	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - OPERATIONAL PROCEDURES BEING UPGRADED	1988/01	1988/01	1988/02

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PORT HOPE
PLANT : PORT HOPE WPCP
WORKS NUMBER : 120000079
TREATMENT : HIGH RATE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 9.09 (1000 M3)

REGION : CENTRAL
DISTRICT : NORTHUMBERLAND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 9,700

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	4.54	4.82	5.39	5.50	4.36	4.02	3.28	3.84	3.97	4.21	5.07	4.34	4.45	
BOD5														
INFLUENT (MG/L)	131.0	139.0	168.0	148.0	136.0	156.0	134.0	143.0	165.0	152.0	178.0	155.0	150.4	
EFFLUENT (MG/L)	10.6	12.2	17.7	13.2	12.0	6.1	6.2	5.0	5.8	6.4	14.5	12.4	10.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	48.12	58.80	95.40	72.60	52.32	24.52	20.33	19.20	23.02	26.94	73.51	53.81	45.39	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	72.0	90.1	80.3	60.0	85.0	72.0	61.0	88.0	109.0	132.0	92.0	93.0	86.2	
EFFLUENT (MG/L)	6.5	9.6	7.8	7.5	5.1	6.0	5.7	4.8	5.2	5.3	5.6	5.0	6.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	29.51	46.27	42.04	41.25	22.23	24.12	18.69	18.43	20.64	22.31	28.39	21.70	27.59	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	1.8	2.7	2.6	2.4	2.6	2.7	2.5	2.7	3.4	4.1	2.9	3.2	2.8	
EFFLUENT (MG/L)	0.9	0.7	0.7	0.9	0.9	0.8	0.7	0.7	0.8	0.6	0.7	0.6	0.8	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	4.08	3.37	3.77	4.95	3.92	3.21	2.29	2.68	3.17	2.52	3.54	2.60	3.56	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
M - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PORT MCNICOLL
PLANT : PORT MCNICOLL WPCP
WORKS NUMBER : 110001417
TREATMENT : CONTACT STABILIZATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 1.04 (1000 M3)

REGION : CENTRAL
DISTRICT : SIMCOE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : GEORGIAN BAY
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,800

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.72	0.70	0.89	1.04	0.81	0.55	0.51	0.49	0.55	0.72	1.02	0.76	0.73	
BOD5														
INFLUENT (MG/L)	77.5	65.1	113.0	42.3	50.2	97.4	192.0	105.0	104.0	99.0	55.0	75.0	89.6	
EFFLUENT (MG/L)	16.1	17.5	8.1	9.3	6.3	10.9	3.6	4.8	7.4	3.6	4.5	10.3	8.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	11.59	12.25	7.20	9.67	5.10	5.99	1.83	2.35	4.07	2.59	4.59	7.82	6.21	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	52.0	78.5	115.5	79.5	72.0	231.5	233.0	107.0	113.0	99.0	46.0	54.0	106.8	
EFFLUENT (MG/L)	15.3	10.2	5.8	3.5	7.9	10.3	4.5	3.9	6.4	3.0	1.8	7.2	6.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	11.01	7.14	5.16	3.64	6.39	5.66	2.29	1.91	3.52	2.16	1.83	5.47	4.89	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.3	4.2	6.8	2.6	3.8	5.4	8.0	7.5	4.9	7.7	3.6	4.4	5.3	
EFFLUENT (MG/L)	0.5	0.6	0.4	0.4	0.5	0.6	0.6	0.5	0.5	0.4	0.2	0.3	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.36	0.42	0.35	0.41	0.40	0.33	0.30	0.24	0.27	0.28	0.20	0.22	0.37	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1986 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : SCUGOG
PLANT : NONQUON RIVER LAGOON (PORT PERRY)
WORKS NUMBER : 110001257
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT CHLORINATION
DESIGN CAPACITY : 3.18 (1000 M3)

REGION : CENTRAL
DISTRICT : DURHAM, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE SCUGOG
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 5,215

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.18	2.13	2.13	2.74	2.44	2.10	1.85	1.79	1.92	2.07	2.54	2.12	2.17	
LAGOON DISCHARGE	ND	ND	ND	190.93	323.30	ND	ND	ND	ND	ND	360.72	12.02	221.74	
BOD5														
INFLUENT (MG/L)	173.0	158.0	32.0	312.0	174.0	165.0	58.0	207.0	ND	204.0	152.0	302.0	176.1	
EFFLUENT (MG/L)	ND	ND	ND	4.0	9.4	ND	ND	ND	ND	ND	5.2	3.4	5.5	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	10.96	22.93	ND	ND	ND	ND	ND	13.20	7.20	11.94	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	166.0	158.0	491.0	143.0	467.0	435.0	ND	192.0	ND	214.0	484.0	323.0	307.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	13.9	ND	ND	ND	ND	ND	8.1	9.3	10.4	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	33.91	ND	ND	ND	ND	ND	20.57	19.71	22.57	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.7	11.0	7.7	7.7	7.7	8.2	3.8	8.1	ND	8.6	7.8	7.7	7.9	
EFFLUENT (MG/L)	ND	ND	ND	0.2	0.4	ND	ND	ND	ND	ND	0.2	0.2	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	0.54	0.97	ND	ND	ND	ND	ND	0.50	0.42	0.65	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : SMITH
PLANT : WOODLAND ACRES WPCP
WORKS NUMBER : 110002381
TREATMENT : EXTENDED AERATION

DESIGN CAPACITY : 0.36 (1000 M3)

REGION : CENTRAL
DISTRICT : PETERBOROUGH
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : OTONABEE R.
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 435

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.22	0.21	0.31	0.40	0.26	0.17	0.13	0.12	0.12	0.15	0.19	0.16	0.20	
BOD5														
INFLUENT (MG/L)	51.0	54.0	73.0	24.6	24.0	76.0	77.0	77.0	63.0	106.0	25.0	38.0	57.4	
EFFLUENT (MG/L)	3.4	2.6	5.0	11.2	2.7	1.2	2.0	1.6	0.7	6.3	5.0	5.3	3.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.74	0.54	1.55	4.48	0.70	0.20	0.26	0.19	0.08	0.94	0.95	0.84	0.78	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	62.0	62.0	94.0	20.6	21.0	62.0	85.0	114.0	82.0	103.0	22.0	39.0	63.9	
EFFLUENT (MG/L)	5.1	9.6	6.9	6.9	1.9	0.7	1.8	1.5	0.9	6.9	3.5	9.3	4.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.12	2.01	2.13	2.76	0.49	0.11	0.23	0.18	0.10	1.03	0.66	1.48	0.92	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.0	2.8	2.5	0.8	1.2	2.1	4.0	3.8	3.6	5.7	2.2	4.5	2.9	
EFFLUENT (MG/L)	2.1	1.6	2.8	0.7	1.6	2.9	3.4	3.2	3.4	2.9	2.2	3.3	2.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.46	0.33	0.86	0.28	0.41	0.49	0.44	0.38	0.40	0.43	0.41	0.52	0.50	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : STAYNER
PLANT : STAYNER LAGOON
WORKS NUMBER : 110000695
TREATMENT : AERATED CELL PLUS LAGOON
: SEASONAL DISCHARGE
: PHOSPHORUS REMOVAL - BATCH
DESIGN CAPACITY : 1.04 (1000 M3)

REGION : CENTRAL
DISTRICT : SIMCOE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAMONT CREEK
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,400

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.43	1.44	1.61	1.63	1.33	1.23	1.22	1.18	1.28	2.18	2.29	1.91	1.56	
LAGOON DISCHARGE	ND	41.61	49.9s	172.98	ND	ND	ND	83.60	ND	160.25	76.65	ND	97.50	
BOD5														
INFLUENT (MG/L)	1,062.0	1,158.0	168.0	574.0	549.0	690.0	1,000.0	556.0	676.0	352.0	239.0	277.0	608.4	
EFFLUENT (MG/L)	ND	ND	128.0	109.2	ND	ND	ND	23.8	ND	13.6	ND	ND	68.7*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	206.08	177.99	ND	ND	ND	28.08	ND	29.64	ND	ND	107.17	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	264.0	1,102.0	148.0	324.0	256.0	243.0	274.0	357.0	295.0	230.0	252.0	278.0	335.3	
EFFLUENT (MG/L)	ND	ND	67.6	62.8	ND	ND	ND	59.8	ND	51.2	ND	ND	60.4*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	108.83	102.36	ND	ND	ND	70.56	ND	111.61	ND	ND	94.22	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.0	33.4	6.4	9.3	8.1	10.1	10.8	9.0	9.0	5.3	6.7	8.0	10.3	
EFFLUENT (MG/L)	ND	ND	6.4*	2.1*	ND	ND	ND	1.8*	ND	1.0	ND	ND	2.8	3
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	10.30	3.42	ND	ND	ND	2.12	ND	2.18	ND	ND	4.37	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	NO
SS	25.0 MG/L	NO
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING IMPLEMENTED IN PHASES			

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : TOTTENHAM
PLANT : TOTTENHAM LAGOON
WORKS NUMBER : 120000523
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 0.86 (1000 M3)

REGION : CENTRAL
DISTRICT : SIMCOE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : BEETON CREEK
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.20	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	131.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	131.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	136.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	136.5	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.1	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	INSUFFICIENT DATA
SS	25.0 MG/L	INSUFFICIENT DATA
TP	1.0 MG/L	INSUFFICIENT DATA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

OPERATIONAL/PROCESS - PHASING OUT EXISTING FACILITY

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : TOTTENHAM
PLANT : TOTTENHAM WPCP
WORKS NUMBER : 110002531
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
DESIGN CAPACITY : 2.25 (1000 M3)

REGION : CENTRAL
DISTRICT : GREY
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE :
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED :

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	1.26	1.12	0.94	1.11	1.23	1.33	1.54	1.19	1.22	
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	167.0	104.5	173.0	189.0	157.0	89.5	119.5	117.5	139.6	
EFFLUENT (MG/L)	ND	ND	ND	ND	12.1	6.6	9.6	10.5	3.2	1.1	3.9	3.2	6.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	15.24	7.39	9.02	11.65	3.93	1.46	6.00	3.80	7.69	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	442.0	154.0	178.5	631.0	308.0	139.5	132.5	129.5	264.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	11.4	6.9	6.1	5.2	5.3	3.3	3.5	3.6	5.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	14.36	7.72	5.73	5.77	6.51	4.38	5.39	4.28	6.95	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	12.3	9.3	14.9	15.5	14.3	6.7	7.8	13.4	11.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	0.3	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	0.37	0.22	0.18	0.33	0.24	0.26	0.46	0.23	0.24	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	INSUFFICIENT DATA
SS	25.0 MG/L	INSUFFICIENT DATA
TP	1.0 MG/L	INSUFFICIENT DATA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : UXBRIDGE
PLANT : UXBRIDGE BROOK WPCP
WORKS NUMBER : 120000756
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
DESIGN CAPACITY : 3.63 (1000 M3)

REGION : CENTRAL
DISTRICT : DURHAM, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : UXBRIDGE BROOK
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 4,550

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.55	1.39	1.68	2.33	1.81	1.61	1.54	1.82	1.99	1.40	1.51	1.16	1.65	
BOD5														
INFLUENT (MG/L)	147.0	127.0	91.0	117.0	145.0	117.0	25.0	100.0	119.0	183.0	256.0	ND	129.7	
EFFLUENT (MG/L)	2.4	1.1	4.1	2.7	7.3	2.7	2.4	0.4	0.4	2.0	3.1	ND	2.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.72	1.52	6.88	6.29	13.21	4.34	3.69	0.72	0.79	2.80	4.68	ND	4.29	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	196.0	144.0	28.0	163.0	107.0	163.0	29.0	201.0	147.0	280.0	101.0	31.0	132.5	
EFFLUENT (MG/L)	5.0	2.8	6.0	ND	ND	0.6	6.8	4.6	4.6	3.8	1.9	2.3	3.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	7.75	3.89	10.08	ND	ND	0.96	10.47	8.37	9.15	5.32	2.86	2.66	6.27	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.1	5.8	4.9	8.3	5.9	8.3	2.3	5.2	4.3	5.6	4.5	6.4	5.6	
EFFLUENT (MG/L)	0.2	0.1	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.31	0.13	0.33	0.46	0.18	0.32	0.15	0.36	0.39	0.14	0.15	0.11	0.33	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
- EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : VAUGHAN
PLANT : KLEINBURG WPCP
WORKS NUMBER : 120000417
TREATMENT : EXTENDED AERATION

DESIGN CAPACITY : 0.22 (1000 M3)

REGION : CENTRAL
DISTRICT : YORK, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : HUMBER RIVER
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 900

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.22	0.20	0.24	0.29	0.25	0.19	0.17	0.18	0.20	0.21	0.21	0.18	0.21	
BOD5														
INFLUENT (MG/L)	134.0	82.0	72.0	102.0	82.0	72.0	123.0	126.0	102.0	82.0	102.0	102.0	98.4	
EFFLUENT (MG/L)	6.0	4.5	4.1	6.2	5.2	5.5	4.4	2.8	4.0	3.8	6.7	9.5	5.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.32	0.90	0.98	1.79	1.30	1.04	0.74	0.50	0.80	0.79	1.40	1.71	1.09	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	145.0	99.0	91.0	104.0	90.0	119.0	149.0	190.0	116.0	106.0	68.0	81.0	113.2	
EFFLUENT (MG/L)	10.4	11.0	8.3	8.8	8.3	10.1	9.9	8.1	7.0	10.8	4.9	8.6	8.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2.28	2.20	1.99	2.55	2.07	1.91	1.68	1.45	1.40	2.26	1.02	1.54	1.87	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	20.1	7.9	5.9	4.3	4.8	15.9	5.4	7.7	6.0	4.4	5.3	6.0	7.8	
EFFLUENT (MG/L)	4.0	4.3	3.9	3.1	3.0	4.8	4.3	4.9	4.1	4.5	3.7	3.3	4.0	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.88	0.86	0.93	0.89	0.75	0.91	0.73	0.88	0.82	0.94	0.77	0.59	0.84	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : VICTORIA HARBOUR
PLANT : VICTORIA HARBOUR WPCP
WORKS NUMBER : 120003227
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
DESIGN CAPACITY : 2.36 (1000 M3)

REGION : CENTRAL
DISTRICT : SIMCOE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : GEORGIAN BAY
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,669

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.67	0.69	0.73	0.78	0.76	0.75	0.69	0.60	0.53	0.49	0.60	0.50	0.65	
BOD5														
INFLUENT (MG/L)	60.6	107.3	57.7	80.6	61.2	80.4	107.0	158.0	80.9	56.5	109.0	123.5	90.2	
EFFLUENT (MG/L)	1.6	2.3	1.8	1.6	2.4	7.0	2.1	3.8	1.9	1.0	1.3	2.7	2.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.07	1.58	1.31	1.24	1.82	5.25	1.44	2.28	1.00	0.49	0.78	1.35	1.63	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	106.8	139.0	76.1	115.4	69.7	97.0	147.0	218.5	104.2	104.0	114.0	67.1	113.2	
EFFLUENT (MG/L)	0.8	1.2	1.4	0.8	3.7	3.6	2.6	2.7	1.2	1.5	1.0	2.4	1.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.53	0.82	1.02	0.62	2.81	2.70	1.79	1.62	0.63	0.73	0.60	1.20	1.24	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.5	3.6	3.3	3.5	3.2	3.7	5.3	6.3	4.1	4.2	3.6	4.5	4.1	
EFFLUENT (MG/L)	0.1	0.1	0.2	0.1	0.2	0.2	0.3	0.3	0.1	0.1	0.1	0.1	0.2	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.06	0.06	0.14	0.07	0.15	0.15	0.20	0.18	0.05	0.04	0.06	0.05	0.13	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WASAGA BEACH
PLANT : WASAGA BEACH WPCP (SUM.POP.SERV.73000)
WORKS NUMBER : 120001862
TREATMENT : EXTENDED AERATION
: EFFLUENT POLISHING
: EXFILTRATION
DESIGN CAPACITY : 5.77 (1000 M3)

REGION : CENTRAL
DISTRICT : SIMCOE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : NO DISC.TO SURFACE WATER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,090

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.80	0.74	0.77	0.83	1.06	1.22	2.18	1.89	1.15	0.89	0.74	0.76	1.09	
BOD5														
INFLUENT (MG/L)	76.5	58.0	86.5	82.0	62.0	89.0	306.5	211.5	64.5	63.5	85.0	110.0	107.9	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	65.0	55.5	62.0	64.0	78.0	85.5	282.5	262.5	59.0	70.0	55.5	130.0	105.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.9	3.8	5.5	4.5	3.8	4.5	9.0	7.4	4.4	5.7	4.7	4.9	5.1	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	NA	NO DIRECT DISCHARGE
SS	25.0 MG/L	NO DIRECT DISCHARGE
TP	NA	NO DIRECT DISCHARGE

NOTE:
BOD - HAS NO CRITERIA
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WHITBY
PLANT : CORBETT CREEK WPCP
WORKS NUMBER : 120000738
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 36.36 (1000 M3)

REGION : CENTRAL
DISTRICT : DURHAM, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 26,100

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	24.22	22.37	26.41	27.70	26.69	26.41	24.89	25.35	26.33	25.72	25.62	21.83	25.30	
BOD5														
INFLUENT (MG/L)	162.0	188.0	79.0	97.0	132.0	89.0	149.0	272.0	352.0	127.0	125.0	122.0	157.8	
EFFLUENT (MG/L)	23.4	63.3	29.4	23.0	26.2	25.1	7.7	33.1	26.4	71.3	37.4	26.0	32.7*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	566.74	1416.02	776.45	637.10	699.27	662.89	191.65	839.08	695.11	1833.83	958.18	567.58	827.31	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	180.0	129.0	114.0	170.0	221.0	209.0	150.0	107.0	268.0	503.0	169.0	186.0	200.5	
EFFLUENT (MG/L)	46.5	56.8	23.9	19.3	17.1	13.9	16.2	28.7	25.2	60.3	28.9	17.9	29.6*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1126.23	1270.61	631.19	534.61	456.39	367.09	403.21	727.54	663.51	1550.91	740.41	390.75	748.88	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	9.8	11.3	13.1	13.3	8.9	9.1	8.1	8.2	11.5	11.1	11.7	10.6	10.6	
EFFLUENT (MG/L)	2.7*	2.8*	2.0*	2.8*	1.3*	0.9	1.5*	1.1*	0.8	1.1*	2.1*	1.1*	1.7	10
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	65.39	62.63	52.82	77.56	34.69	23.76	37.33	27.88	21.06	28.29	53.80	24.01	43.01	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	NO
SS	25.0 MG/L	NO
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
INFLUENT SEWAGE - INSTALLING INDUSTRIAL PRETREATMENT			
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED			
EQUIPMENT/MAINTENANCE - NEW EQUIPMENT BEING INSTALLED	1988/07	1988/08	1990

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WHITBY
PLANT : PRINGLE CREEK WPCP NO 1
WORKS NUMBER : 120000747
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 5.68 (1000 M3)

REGION : CENTRAL
DISTRICT : DURHAM, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : PRINGLE CREEK
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 10,925

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.81	2.94	3.25	3.71	3.19	2.43	1.94	2.28	2.32	2.28	2.10	3.06	2.69	
BOD5														
INFLUENT (MG/L)	87.0	89.0	69.0	201.0	186.0	126.0	94.0	234.0	202.0	145.0	77.0	221.0	144.3	
EFFLUENT (MG/L)	9.6	6.9	6.7	12.1	8.0	3.4	5.6	9.5	5.1	35.0	9.0	6.4	9.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	26.97	20.28	21.77	44.89	25.52	8.26	10.86	21.66	11.83	79.80	18.90	19.58	26.36	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	104.8	124.0	137.0	128.0	136.6	148.6	167.0	220.0	236.0	210.0	127.0	216.0	162.9	
EFFLUENT (MG/L)	9.0	8.1	9.4	11.8	5.5	8.6	10.0	10.7	5.3	11.3	8.9	10.2	9.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	25.29	23.81	30.55	43.77	17.54	20.89	19.40	24.39	12.29	25.76	18.69	31.21	24.48	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.6	5.5	5.8	6.0	6.5	6.7	7.3	5.9	5.9	5.9	5.6	6.6	6.0	
EFFLUENT (MG/L)	0.5	0.6	0.6	0.6	0.6	0.9	0.6	0.8	0.8	0.8	0.6	0.5	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	1.40	1.76	1.95	2.22	1.91	2.18	1.16	1.82	1.85	1.82	1.26	1.53	1.88	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WHITBY
PLANT : PRINGLE CREEK WPCP NO 2
WORKS NUMBER : 120003101
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 9.09 (1000 M3)

REGION : CENTRAL
DISTRICT : DURHAM, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : PRINGLE CREEK
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 10,925

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.23	3.55	3.90	4.56	3.86	2.97	2.80	3.41	3.17	3.41	4.01	4.04	3.58	
BOD5														
INFLUENT (MG/L)	87.0	89.0	69.0	201.0	186.0	126.0	94.0	234.0	202.0	145.0	77.0	221.0	144.3	
EFFLUENT (MG/L)	6.2	6.3	8.1	14.3	9.3	18.3	5.2	6.4	4.5	5.3	4.4	3.9	7.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	20.02	22.36	31.59	65.20	35.89	54.35	14.56	21.82	14.26	18.07	17.64	15.75	27.57	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	104.8	124.0	137.0	128.0	136.6	148.0	167.0	220.0	236.0	210.0	127.0	216.0	162.9	
EFFLUENT (MG/L)	9.8	8.3	9.1	10.3	4.3	13.2	11.1	8.3	8.3	8.9	5.8	8.5	8.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	31.65	29.46	35.49	46.96	16.59	39.20	31.08	28.30	26.31	30.34	23.25	34.34	31.50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.6	5.5	5.7	6.0	6.5	6.6	7.3	5.9	5.9	5.9	5.6	6.6	6.0	
EFFLUENT (MG/L)	0.7	0.7	0.7	0.6	0.8	0.7	0.7	0.6	0.9	0.6	0.5	0.6	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	2.26	2.48	2.73	2.73	3.08	2.07	1.96	2.04	2.85	2.04	2.00	2.42	2.51	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WHITCHURCH-STOUFFVI E
PLANT : STOUFFVILLE WPCP
WORKS NUMBER : 120000408
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
DESIGN CAPACITY : 3.86 (1000 M3)

REGION : CENTRAL
DISTRICT : YORK, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : DUFFIN CREEK
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 5,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.43	3.38	3.61	3.89	3.97	3.42	3.14	3.25	3.36	3.44	3.56	3.30	3.48	
BOD5														
INFLUENT (MG/L)	84.0	92.0	98.0	69.0	133.0	78.0	120.0	100.0	112.0	97.0	94.0	102.0	98.3	
EFFLUENT (MG/L)	3.8	5.2	3.8	2.7	2.7	2.6	2.6	2.3	2.2	1.0	2.2	2.9	2.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	13.03	17.57	13.71	10.50	10.71	8.89	8.16	7.47	7.39	3.44	7.83	9.57	9.74	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	101.0	121.0	104.0	96.0	164.0	117.0	178.0	129.0	117.0	117.0	87.0	107.0	119.8	
EFFLUENT (MG/L)	1.7	2.2	1.1	1.8	1.6	1.4	0.9	2.1	1.9	1.3	0.1	1.7	1.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	5.83	7.43	3.97	7.00	6.35	4.78	2.82	6.82	6.38	4.47	0.35	5.61	5.22	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.3	5.4	5.4	4.3	5.7	3.7	5.3	5.2	4.6	5.2	4.7	5.4	4.9	
EFFLUENT (MG/L)	0.4	0.4	0.3	0.2	0.5	0.3	0.4	0.4	0.2	0.3	0.1	0.4	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	1.37	1.35	1.08	0.77	1.98	1.02	1.25	1.30	0.67	1.03	0.35	1.32	1.04	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
\# - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

Southeastern Region

4

Ministry of the Environment

Ontario

Southeastern Region

Ministry of the Environment
Ontario

4

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Pembroke
1000 MacKay St.
K8B 1A3
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SOUTHEAST SUMMARY - 1988

TREATMENT TYPE	NUMBER			DESIGN CAPACITY (1000M3)		
	MIN	MUN	TOT	MINISTRY	MUNICIPAL	TOTAL
EXFILTRATION LAGOON	0	1	1	0.00	54.55	54.55
PRIMARY	2	12	14	10.22	508.92	519.15
CONVENTIONAL ACTIVATED SLUDGE	4	3	7	96.03	40.00	136.03
MODIFIED ACTIVATED SLUDGE	1	0	1	12.27	0.00	12.27
CONTACT STABILIZATION	1	1	2	1.36	4.54	5.91
EXTENDED AERATION	11	5	16	7.86	7.52	15.39
HIGH RATE	1	0	1	5.45	0.00	5.45
COMMUNAL SEPTIC TANK	1	0	1	1.74	0.00	1.74
CONVENTIONAL LAGOON CONTINUOUS	1	1	2	2.39	5.91	8.30
CONVENTIONAL LAGOON SEASONAL	10	3	13	9.76	22.59	32.35
LAGOON AND SPRAY	1	1	2	0.33	0.36	0.70
AERATED CELL PLUS LAGOON	3	0	3	34.95	0.00	34.95
CONVENTIONAL LAGOON ANNUAL	2	1	3	1.65	1.22	2.88
TOTALS	38	28	66	184.07	645.65	829.72

1000M3/D: THOUSANDS OF CUBIC METERS PER DAY
ADF : AVERAGE DAILY FLOW

SOUTHEAST SUMMARY - 1988

TREATMENT TYPE	NUMBER			ANNUAL ADF (1000M3)		
	MIN	MUN	TOT	MINISTRY	MUNICIPAL	TOTAL
EXFILTRATION LAGOON	0	1	1	0.00	48.55	48.55
PRIMARY	2	12	14	9.46	557.01	566.47
CONVENTIONAL ACTIVATED SLUDGE	4	3	7	58.49	36.36	94.85
MODIFIED ACTIVATED SLUDGE	1	0	1	9.90	0.00	9.90
CONTACT STABILIZATION	1	1	2	1.06	2.79	3.85
EXTENDED AERATION	11	5	16	5.89	3.65	9.54
HIGH RATE	1	0	1	4.20	0.00	4.20
COMMUNAL SEPTIC TANK	1	0	1	0.09	0.00	0.09
CONVENTIONAL LAGOON CONTINUOUS	1	1	2	2.30	6.11	8.41
CONVENTIONAL LAGOON SEASONAL	10	3	13	7.81	6.72	14.53
LAGOON AND SPRAY	1	1	2	0.19	0.00	0.19
AERATED CELL PLUS LAGOON	3	0	3	10.33	0.00	10.33
CONVENTIONAL LAGOON ANNUAL	2	1	3	0.56	0.56	1.12
TOTALS	38	28	66	110.28	661.75	772.03

1000M3/D: THOUSANDS OF CUBIC METERS PER DAY
ADF : AVERAGE DAILY FLOW

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ALEXANDRIA
PLANT : ALEXANDRIA LAGOON
WORKS NUMBER : 110000846
TREATMENT : AERATED CELL PLUS LAGOON
: CONTINUOUS DISCHARGE
: PHOSPHORUS REMOVAL-CONTINUOUS
DESIGN CAPACITY : 6.81 (1000 M3)

REGION : SOUTHEAST
DISTRICT : STORMONT, DUNDAS AND GLENGARRY
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : DELISLE R
MINOR BASIN : ST. LAWRENCE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	4.55	6.55	6.83	6.91	5.83	5.24	4.92	5.38	5.26	5.52	8.05	5.09	5.84	
LAGOON DISCHARGE	141.03	190.02	211.71	207.27	180.60	157.24	152.59	166.83	157.69	171.19	241.55	157.80	177.96	
BOD5														
INFLUENT (MG/L)	31.0	52.0	123.0	45.0	38.0	65.0	51.0	81.0	99.0	47.0	44.0	185.0	71.8	
EFFLUENT (MG/L)	10.6	13.3	13.0	12.8	5.0	4.4	2.6	7.4	9.7	9.3	4.8	3.0	8.0	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	48.23	87.11	88.79	88.44	29.15	23.05	12.79	39.81	51.02	51.33	38.64	15.27	46.72	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	87.0	56.0	81.0	47.0	61.0	70.0	51.0	70.0	33.0	34.0	48.0	67.0	58.8	
EFFLUENT (MG/L)	21.0	24.1	26.8	20.1	16.8	7.8	6.4	7.8	8.7	8.6	8.7	16.2	14.4	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	95.55	157.85	183.04	138.89	97.94	40.87	31.48	41.96	45.76	47.47	70.03	82.45	84.10	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.9	2.4	3.2	2.5	2.2	2.5	2.8	4.2	3.8	4.0	2.4	3.7	3.1	
EFFLUENT (MG/L)	0.6	1.0	0.7	0.8	0.3	0.4	0.4	0.5	0.6	0.8	0.4	0.5	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	2.73	6.55	4.78	5.52	1.74	2.09	1.96	2.69	3.15	4.41	3.22	2.54	3.50	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
M - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ALFRED
PLANT : ALFRED LAGOON
WORKS NUMBER : 110001836
TREATMENT : CONVENTIONAL LAGOON SEASONAL
:
:
DESIGN CAPACITY : 0.71 (1000 M3)

REGION : SOUTHEAST
DISTRICT : PRESCOTT AND RUSSELL
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : RUISSEAU DES ATOCAS
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,055

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.44	0.43	0.46	0.51	0.46	0.45	0.48	0.52	0.49	0.63	0.64	0.52	0.50	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	136.0	105.0	250.0	158.0	138.0	184.0	101.0	102.0	159.0	94.0	92.0	ND	138.1	
EFFLUENT (MG/L)	ND	ND	ND	23.0	5.0	ND	ND	ND	ND	ND	ND	ND	14.0	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	11.73	2.30	ND	ND	ND	ND	ND	ND	ND	7.00	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	388.0	301.0	280.0	282.0	120.0	316.0	135.0	95.0	136.0	265.0	278.0	760.0	279.7	
EFFLUENT (MG/L)	ND	ND	ND	26.0	22.0	ND	ND	ND	ND	ND	ND	ND	24.0	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	13.26	10.12	ND	ND	ND	ND	ND	ND	ND	12.00	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.9	7.7	7.9	7.6	6.3	6.2	8.0	8.7	6.2	7.0	5.4	7.0	7.2	
EFFLUENT (MG/L)	ND	ND	ND	5.0	3.4	ND	ND	ND	ND	ND	ND	ND	4.2	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	2.55	1.56	ND	ND	ND	ND	ND	ND	ND	2.10	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ALMONTE
PLANT : ALMONTE LAGOON
WORKS NUMBER : 110000873
TREATMENT : AERATED CELL PLUS LAGOON
: SEASONAL DISCHARGE
: PHOSPHORUS REMOVAL - BATCH
DESIGN CAPACITY : 24.79 (1000 M3)

REGION : SOUTHEAST
DISTRICT : LANARK
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : MISSISSIPPI RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 4,040

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.90	2.09	3.05	4.47	2.60	1.76	1.40	1.41	1.20	2.02	2.95	1.54	2.20	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	108.0	90.0	65.0	100.0	105.0	505.0	83.0	390.0	ND	86.0	24.0	108.0	151.3	
EFFLUENT (MG/L)	ND	ND	16.7	12.7	10.3	ND	ND	ND	ND	7.6	7.7	ND	11.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	50.93	56.76	26.78	ND	ND	ND	ND	15.35	22.71	ND	24.20	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	138.0	115.0	85.0	101.0	120.0	681.0	106.0	676.0	ND	132.0	40.0	135.0	211.7	
EFFLUENT (MG/L)	ND	10.0	16.4	19.5	18.0	ND	ND	ND	ND	13.6	10.1	ND	14.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	20.90	50.02	87.16	46.80	ND	ND	ND	ND	27.47	29.79	ND	32.12	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.9	7.0	6.0	3.4	5.3	14.0	6.6	12.6	ND	6.2	2.3	6.2	7.1	
EFFLUENT (MG/L)	ND	3.1*	3.4*	0.8	0.4	ND	ND	ND	ND	0.5	0.6	ND	1.5	2
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	6.47	10.37	3.57	1.04	ND	ND	ND	ND	1.01	1.77	ND	3.30	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

START DATE	END DATE	ANTICIPATED COMPLIANCE

COLLECTION SYSTEM - SEWAGE UPGRADE UNDERWAY
NO REMEDIAL MEASURES DESCRIPTION

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ARNPRIOR
PLANT : ARNPRIOR WPCP
WORKS NUMBER : 120000621
TREATMENT : PRIMARY
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 6.81 (1000 M3)

REGION : SOUTHEAST
DISTRICT : RENFREW
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : MADAWASKA RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 5,800

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	5.14	5.21	6.36	8.52	5.86	5.18	4.18	5.14	4.89	5.87	5.57	4.46	5.53	
BOD5														
INFLUENT (MG/L)	66.0	70.0	58.0	ND	45.0	87.0	101.0	58.0	62.0	64.0	59.0	32.0	63.8	
EFFLUENT (MG/L)	27.0	32.0	35.0	ND	20.0	40.0	80.0	42.5	21.0	20.0	36.0	18.0	33.8	
LOADING (KG/D)	138.78	166.72	222.60	ND	117.20	207.20	334.40	218.45	102.69	117.40	200.52	80.28	186.91	
PERCENT REMOVAL	59	54	40		56	54	21	27	66	69	39	44	47*	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	70.0	70.0	79.0	72.0	61.0	61.0	63.0	58.0	52.0	58.0	77.0	65.0	65.5	
EFFLUENT (MG/L)	44.0	32.0	40.0	32.4	24.0	40.0	37.0	24.0	26.0	19.5	25.7	32.0	31.4	
LOADING (KG/D)	226.16	166.72	254.40	276.04	140.64	207.20	154.66	123.36	127.14	114.46	143.14	142.72	173.64	
PERCENT REMOVAL	37	54	49	55	61	34	41	59	50	66	67	51	52*	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.9	2.1	2.9	1.9	3.4	3.2	4.3	2.7	2.9	2.4	2.8	3.6	2.9	
EFFLUENT (MG/L)	1.3*	1.0	1.1*	0.8	0.7	0.7	1.3*	0.7	0.7	0.7	0.6	1.1*	0.9	4
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	6.68	5.21	6.99	6.81	4.10	3.62	5.43	3.59	3.42	4.10	3.34	4.90	4.98	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	50%	NO
SS	70%	NO
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM - INFILTRATION PROBLEMS BEING CORRECTED	1988/01	1988/09	1992
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE	1989/01	1990/01	1992

1986 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BANCROFT
PLANT : BANCROFT WPCP
WORKS NUMBER : 110001239
TREATMENT : EXTENDED AERATION
:
:
DESIGN CAPACITY : 4.13 (1000 M3)

REGION : SOUTHEAST
DISTRICT : HASTINGS
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : YORK RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,095

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.26	1.34	1.34	1.86	1.62	1.28	1.25	0.98	0.96	0.94	1.05	1.09	1.25	
BOD5														
INFLUENT (MG/L)	77.0	ND	65.0	60.0	225.0	150.0	ND	ND	ND	82.0	99.0	ND	108.3	
EFFLUENT (MG/L)	3.7	ND	5.0	3.0	4.0	3.5	ND	ND	ND	2.0	4.0	ND	3.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	4.66	ND	6.70	5.58	6.48	4.48	ND	ND	ND	1.88	4.20	ND	4.50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	229.0	97.0	107.0	112.0	112.0	214.0	108.0	137.0	130.0	75.0	120.0	175.0	134.7	
EFFLUENT (MG/L)	10.0	7.0	4.2	4.6	6.8	4.4	5.0	4.3	10.7	11.0	12.5	6.0	7.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	12.60	9.38	5.62	8.55	11.01	5.63	6.25	4.21	10.27	10.34	13.12	6.54	9.00	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.0	3.4	5.4	2.8	2.9	6.9	ND	5.8	ND	3.8	4.9	ND	4.7	
EFFLUENT (MG/L)	2.1	1.8	2.5	0.3	1.0	1.2	ND	3.3	ND	2.9	2.2	ND	1.9	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	2.64	2.41	3.35	0.55	1.62	1.53	ND	3.23	ND	2.72	2.31	ND	2.38	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	INSUFFICIENT DATA
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BARRY'S BAY
PLANT : BARRY'S BAY WPCP
WORKS NUMBER : 110001854
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 1.24 (1000 M3)

REGION : SOUTHEAST
DISTRICT : RENFREW
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : KAMANISKEG LAKE
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,413

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.31	0.34	0.37	0.38	0.45	0.44	0.50	0.37	0.30	0.31	0.33	0.38	0.37	
BOD5														
INFLUENT (MG/L)	120.0	170.0	113.0	335.0	162.0	140.0	162.0	116.0	102.0	188.0	170.0	155.0	161.1	
EFFLUENT (MG/L)	3.4	3.0	3.5	4.0	3.0	3.5	4.0	2.0	3.0	2.1	2.0	3.5	3.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.05	1.02	1.29	1.52	1.35	1.54	2.00	0.74	0.90	0.65	0.66	1.33	1.15	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	243.0	303.0	213.0	232.0	225.0	180.0	279.0	183.0	298.0	267.0	218.0	217.0	238.2	
EFFLUENT (MG/L)	8.8	7.7	7.0	7.5	8.0	9.7	12.0	7.0	8.4	9.9	8.7	10.0	8.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2.72	2.61	2.59	2.85	3.60	4.26	6.00	2.59	2.52	3.06	2.87	3.80	3.22	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.5	6.2	5.9	8.2	7.1	8.5	7.6	7.6	6.9	8.6	5.7	7.2	7.2	
EFFLUENT (MG/L)	0.5	0.5	0.5	0.7	0.5	0.8	0.6	0.7	0.7	0.6	0.6	0.6	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.15	0.17	0.18	0.26	0.22	0.35	0.30	0.25	0.21	0.18	0.19	0.22	0.22	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BATH
PLANT : BATH WPCP
WORKS NUMBER : 120000177
TREATMENT : EXTENDED AERATION
:
:
DESIGN CAPACITY : 1.16 (1000 M3)

REGION : SOUTHEAST
DISTRICT : LENNOX & ADDINGTON
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.99	1.06	1.26	1.16	1.03	1.12	1.19	1.20	1.14	1.21	1.24	0.97	1.13	
BOD5														
INFLUENT (MG/L)	28.0	66.0	87.0	37.0	225.0	160.0	66.0	66.0	64.0	56.0	74.0	50.0	81.6	
EFFLUENT (MG/L)	2.0	19.2	2.5	4.5	2.5	3.0	1.2	1.2	1.6	2.7	1.0	2.0	3.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.98	20.35	3.15	5.22	2.57	3.36	1.42	1.44	1.82	3.26	1.24	1.94	4.07	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	44.0	90.0	69.0	21.0	268.0	102.0	119.0	86.0	93.0	40.0	63.0	44.0	86.6	
EFFLUENT (MG/L)	2.4	4.4	6.0	15.5	4.5	6.0	2.5	2.5	5.5	10.5	4.0	3.0	5.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2.37	4.66	7.56	17.98	4.63	6.72	2.97	3.00	6.27	12.70	4.96	2.91	6.33	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.3	5.6	2.6	1.3	6.3	5.7	3.8	3.8	4.9	3.7	4.5	2.6	4.0	
EFFLUENT (MG/L)	0.6	1.4	0.9	2.3	3.4	3.4	2.2	2.2	3.2	2.3	2.9	2.4	2.3	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.59	1.48	1.13	2.66	3.50	3.80	2.61	2.64	3.64	2.78	3.59	2.32	2.60	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BELLEVILLE
PLANT : BELLEVILLE WPCP (163500 M3/D.PRIMARY)
WORKS NUMBER : 110000016
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 54.55 (1000 M3)

REGION : SOUTHEAST
DISTRICT : HASTINGS
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BAY OF QUINTE
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 35,351

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	30.05	34.70	41.31	35.34	37.66	24.70	24.61	24.09	23.31	25.99	28.34	24.35	29.54	
BOD5														
INFLUENT (MG/L)	146.0	140.0	208.0	209.0	159.0	ND	102.0	71.0	74.0	132.0	154.0	156.0	141.0	
EFFLUENT (MG/L)	16.8	16.8	28.8	23.2	17.3	46.0	22.5	7.0	24.0	17.9	18.7	17.9	21.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	504.84	582.96	1189.72	819.88	651.51	1136.20	553.72	168.63	559.44	465.22	529.95	435.86	632.16	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	138.0	102.0	116.0	131.0	115.0	ND	76.0	114.0	141.0	133.0	88.0	112.0	115.1	
EFFLUENT (MG/L)	16.5	36.2	16.9	22.7	18.9	15.0	6.4	5.6	9.4	9.1	12.3	16.0	15.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	495.82	1256.14	698.13	802.21	711.77	370.50	157.50	134.90	219.11	236.50	348.58	389.60	454.92	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.0	3.8	3.3	5.4	4.2	ND	3.3	4.0	4.9	5.0	5.0	5.2	4.4	
EFFLUENT (MG/L)	0.6	0.4	0.6	0.6	0.5	0.6	0.4	0.5	0.3	0.2	0.3	0.7	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	18.03	13.88	24.78	21.20	18.83	14.82	9.84	12.04	6.99	5.19	8.50	17.04	14.77	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BROCKVILLE
PLANT : BROCKVILLE WPCP
WORKS NUMBER : 120000122
TREATMENT : PRIMARY
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 25.57 (1000 M3)

REGION : SOUTHEAST
DISTRICT : LEEDS AND GRENVILLE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : ST.LAWRENCE RIVER
MINOR BASIN : ST. LAWRENCE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 20,169

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	16.71	17.44	19.56	19.15	17.32	16.17	15.96	17.30	16.31	20.31	22.31	16.58	17.93	
BOD5														
INFLUENT (MG/L)	408.0	49.0	83.0	40.0	184.0	121.0	145.0	44.0	65.0	79.0	78.0	155.0	120.9	
EFFLUENT (MG/L)	39.5	43.5	62.5	25.0	21.5	44.0	21.0	49.0	12.0	16.0	44.0	24.0	33.5	
LOADING (KG/D)	660.04	758.64	1222.50	478.75	372.38	711.48	335.16	847.70	195.72	324.96	981.64	397.92	600.66	
PERCENT REMOVAL	90	11	25	38	88	64	86	ND	82	80	44	85	72	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	184.0	86.0	115.0	260.0	442.0	157.0	195.0	155.0	131.0	151.0	115.0	175.0	180.5	
EFFLUENT (MG/L)	104.3	55.0	66.2	76.0	39.0	35.6	40.8	35.0	31.0	23.8	42.2	30.7	48.3	
LOADING (KG/D)	1742.85	959.20	1294.87	1455.40	675.48	575.65	651.16	605.50	505.61	483.37	941.48	509.00	866.02	
PERCENT REMOVAL	43	36	42	71	91	77	79	77	76	84	63	82	73	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	10.9	4.0	5.6	5.3	8.7	7.1	9.8	5.7	7.1	4.6	3.8	5.6	6.5	
EFFLUENT (MG/L)	2.2*	2.3*	1.7*	1.5*	1.6*	1.6*	2.5*	1.4*	1.7*	0.9	1.5*	1.9*	1.7	11
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	36.76	40.11	33.25	28.72	27.71	25.87	39.90	24.22	27.72	18.27	33.46	31.50	30.48	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	50%	YES
SS	70%	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM - ENFORCING SEWER-USE BYLAWS			
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED			
FACILTY EXPANSION/UPGRADING - FINAL DESIGN PHASE			

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : CARLETON PLACE
PLANT : CARLETON PLACE WPCP
WORKS NUMBER : 110000971
TREATMENT : HIGH RATE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 5.45 (1000 M3)

REGION : SOUTHEAST
DISTRICT : LANARK
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : MISSISSIPPI RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 6,600

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	4.85	4.46	4.28	4.80	4.62	3.71	3.80	3.81	3.22	3.97	5.06	3.79	4.20	
BOD5														
INFLUENT (MG/L)	77.0	52.0	50.0	40.0	99.0	150.0	23.0	75.0	18.0	71.0	ND	ND	65.5	
EFFLUENT (MG/L)	37.5	12.0	10.0	18.0	16.5	52.0	8.5	12.0	7.8	6.0	ND	ND	18.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	181.87	53.52	42.80	86.40	76.23	192.92	32.30	45.72	25.11	23.82	ND	ND	75.60	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	98.0	99.5	85.0	40.0	122.0	302.0	38.0	125.0	69.0	85.0	50.0	ND	101.2	
EFFLUENT (MG/L)	59.0	47.0	55.0	20.0	29.0	95.5	29.0	20.5	16.0	13.0	14.0	ND	36.2*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	286.15	209.62	235.40	96.00	133.98	354.30	110.20	78.10	51.52	51.61	70.84	ND	152.04	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.8	4.6	4.9	2.5	5.4	9.9	2.4	5.1	3.1	4.9	3.7	ND	4.6	
EFFLUENT (MG/L)	2.2*	1.9*	1.9*	1.1*	0.6	4.8*	1.5*	0.8	0.7	0.8	1.1*	ND	1.6	7
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	10.67	8.47	8.13	5.28	2.77	17.80	5.70	3.04	2.25	3.17	5.56	ND	6.72	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	NO
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED	1987/08	1991/04	1991/04

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : CASSELMAN
PLANT : CASSELMAN LAGOON
WORKS NUMBER : 110002201
TREATMENT : CONVENTIONAL LAGOON SEASONAL
:
:
DESIGN CAPACITY : 1.36 (1000 M3)

REGION : SOUTHEAST
DISTRICT : PRESCOTT AND RUSSELL
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : S. NATION RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,021

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.74	0.72	0.78	0.96	0.76	0.71	0.74	0.74	0.72	0.88	1.03	0.76	0.80	
LAGOON DISCHARGE	ND	ND	ND	99.33	ND	ND	ND	ND	ND	ND	90.10	ND	94.72	
BOD5														
INFLUENT (MG/L)	33.0	51.0	55.0	87.0	47.0	93.0	24.0	128.0	50.0	44.0	41.0	49.0	58.5	
EFFLUENT (MG/L)	ND	ND	ND	16.9	ND	ND	ND	ND	ND	ND	1.5	ND	9.2	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	16.22	ND	ND	ND	ND	ND	ND	1.54	ND	7.36	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	63.0	59.0	30.0	39.0	54.0	48.0	26.0	84.0	39.0	38.0	31.0	32.0	45.3	
EFFLUENT (MG/L)	ND	ND	ND	31.0	ND	ND	ND	ND	ND	ND	10.3	ND	20.7	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	29.76	ND	ND	ND	ND	ND	ND	10.60	ND	16.56	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.3	4.8	4.9	3.0	6.1	5.9	4.5	6.4	5.1	2.8	3.9	4.4	4.7	
EFFLUENT (MG/L)	ND	ND	ND	1.5	ND	ND	ND	ND	ND	ND	0.4	ND	1.0	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	1.44	ND	ND	ND	ND	ND	ND	0.41	ND	0.80	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : CHALK RIVER
PLANT : CHALK RIVER WPCP
WORKS NUMBER : 110001587
TREATMENT : EXTENDED AERATION
: CONVERTIBLE OPERATING MODE
:
DESIGN CAPACITY : 0.54 (1000 M3)

REGION : SOUTHEAST
DISTRICT : RENFREW
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : DUCK CR TO DUCK LAKE
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 986

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.39	0.39	0.39	0.47	0.49	0.48	0.49	0.49	0.42	0.41	0.38	0.41	0.43	
BOD5														
INFLUENT (MG/L)	90.0	129.0	105.0	66.0	151.0	85.0	122.0	114.0	170.0	127.0	109.0	151.0	118.3	
EFFLUENT (MG/L)	7.2	19.0	17.7	8.3	18.0	13.0	4.5	10.0	32.0	15.0	11.0	22.3	14.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2.80	7.41	6.90	3.90	8.82	6.24	2.20	4.90	13.44	6.15	4.18	9.14	6.36	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	136.0	251.0	162.0	120.0	130.0	152.0	145.0	126.0	158.0	136.0	142.0	142.0	150.0	
EFFLUENT (MG/L)	9.5	13.0	14.0	16.0	11.0	11.0	17.0	18.0	16.2	17.0	22.4	28.6	16.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.70	5.07	5.46	7.52	5.39	5.28	8.33	8.82	6.80	6.97	8.51	11.72	6.92	
TOTAL PHOSPHORUS														
INFLUENT (MG/L)	4.8	3.8	4.2	4.1	5.1	4.1	2.9	3.3	5.4	2.4	3.8	2.0	3.8	
EFFLUENT (MG/L)	1.6	1.5	2.4	1.6	2.5	1.6	0.6	1.0	1.8	1.2	0.9	2.8	1.6	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.62	0.58	0.93	0.75	1.22	0.76	0.29	0.49	0.75	0.49	0.34	1.14	0.69	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - OPERATIONAL PROCEDURES BEING UPGRADED		
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED		
OPERATIONAL/PROCESS - PROCESS CONTROL BEING UPGRADED		

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : CHESTERVILLE
PLANT : CHESTERVILLE LAGOON
WORKS NUMBER : 110000114
TREATMENT : CONVENTIONAL LAGOON SEASONAL
:
:
DESIGN CAPACITY : 1.04 (1000 M3)

REGION : SOUTHEAST
DISTRICT : STORMONT, DUNDAS AND GLENGARRY
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : SOUTH NATION RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,460

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.60	0.69	0.79	0.87	0.77	0.59	0.71	0.68	0.63	0.84	1.05	0.60	0.74	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	43.0	18.0	33.0	85.0	56.0	79.0	75.0	32.0	65.0	34.0	34.0	43.0	49.8	
EFFLUENT (MG/L)	ND	ND	14.0	12.5	ND	ND	ND	ND	ND	ND	12.7	ND	13.1	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	11.06	10.87	ND	ND	ND	ND	ND	ND	13.33	ND	9.69	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	69.0	57.0	60.0	39.0	60.0	72.0	58.0	60.0	98.0	34.0	39.0	49.0	57.9	
EFFLUENT (MG/L)	ND	ND	30.0	18.0	ND	ND	ND	ND	ND	ND	17.0	ND	21.7	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	23.70	15.66	ND	ND	ND	ND	ND	ND	17.85	ND	16.06	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.8	2.9	4.5	2.6	1.9	5.8	3.4	3.9	5.5	3.5	2.7	3.7	3.7	
EFFLUENT (MG/L)	ND	ND	3.5	3.5	ND	ND	ND	ND	ND	ND	0.9	ND	2.6	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	2.76	3.04	ND	ND	ND	ND	ND	ND	0.94	ND	1.92	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : COBDEN
PLANT : COBDEN WPCP
WORKS NUMBER : 120000596
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 0.68 (1000 M3)

REGION : SOUTHEAST
DISTRICT : RENFREW
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : MUSKRAT RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,035

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.73	0.76	0.83	1.17	0.84	0.57	0.53	0.58	0.55	0.60	0.61	0.55	0.69	
BOD5														
INFLUENT (MG/L)	48.0	38.0	40.0	45.0	20.0	100.0	114.0	44.0	ND	56.0	88.0	92.0	62.3	
EFFLUENT (MG/L)	3.0	3.2	3.0	5.0	2.0	4.0	4.0	3.0	ND	2.0	2.0	2.0	3.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2.19	2.43	2.49	5.85	1.68	2.28	2.12	1.74	ND	1.20	1.22	1.10	2.07	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	56.0	69.0	93.0	46.0	51.0	61.0	94.0	143.0	80.0	70.0	89.0	79.0	77.6	
EFFLUENT (MG/L)	8.0	8.8	8.3	5.5	4.1	5.7	5.7	5.8	5.6	6.8	7.6	8.0	6.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	5.84	6.68	6.88	6.43	3.44	3.24	3.02	3.36	3.08	4.08	4.63	4.40	4.62	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.9	2.6	3.0	2.4	3.1	4.0	5.3	4.2	4.7	4.0	4.3	4.8	3.9	
EFFLUENT (MG/L)	0.7	0.6	0.6	0.5	0.6	0.7	0.8	0.6	0.6	0.7	0.6	0.6	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.51	0.45	0.49	0.58	0.50	0.39	0.42	0.34	0.33	0.42	0.36	0.33	0.41	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : CORNWALL
PLANT : CORNWALL WPCP
WORKS NUMBER : 110000132
TREATMENT : PRIMARY
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 54.55 (1000 M3)

REGION : SOUTHEAST
DISTRICT : STORMONT, DUNDAS AND GLENGARRY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : ST. LAWRENCE RIVER
MINOR BASIN : ST. LAWRENCE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 46,800

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	30.24	34.94	45.36	55.84	48.76	51.35	52.95	53.92	45.83	57.02	66.78	39.55	48.55	
BOD5														
INFLUENT (MG/L)	240.0	62.0	30.0	90.0	87.0	98.0	77.0	ND	80.0	51.0	50.0	94.0	87.2	
EFFLUENT (MG/L)	110.0	25.0	19.0	73.0	55.0	55.0	21.0	ND	52.0	35.0	25.0	35.0	45.9	
LOADING (KG/D)	3326.40	873.50	861.84	4076.32	2681.80	2824.25	1111.95	ND	2383.16	1995.70	1669.50	1384.25	2228.45	
PERCENT REMOVAL	54	60	37	19	37	44	73		35	31	50	63	47*	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	83.0	83.0	92.0	134.0	95.0	131.0	119.0	104.0	113.0	110.0	97.0	151.0	109.3	
EFFLUENT (MG/L)	19.0	22.0	24.0	29.0	27.0	22.0	15.0	20.0	16.0	22.0	18.0	19.0	21.1	
LOADING (KG/D)	574.56	768.68	1088.64	1619.36	1316.52	1129.70	794.25	1078.40	733.28	1254.44	1202.04	751.45	1024.41	
PERCENT REMOVAL	77	73	74	78	72	83	87	81	86	80	81	87	81	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.1	2.1	2.3	2.1	2.4	2.8	2.5	2.9	2.9	2.2	1.9	2.9	2.4	
EFFLUENT (MG/L)	0.9	0.9	0.8	1.1*	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	27.21	31.44	36.28	61.42	39.00	41.08	42.36	43.13	36.66	45.61	53.42	35.59	43.70	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	50%	NO
SS	70%	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING			

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : CORNWALL
PLANT : LONG SAULT WPCP
WORKS NUMBER : 120000131
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
:
:
DESIGN CAPACITY : 1.36 (1000 M3)

REGION : SOUTHEAST
DISTRICT : STORMONT, DUNDAS AND GLENGARRY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : ST.LAWRENCE RIVER
MINOR BASIN : ST. LAWRENCE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,300

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.08	0.66	1.04	1.25	0.94	0.79	0.97	0.89	0.77	1.11	1.52	0.79	0.98	
BOD5														
INFLUENT (MG/L)	19.0	60.0	75.0	20.0	44.0	44.0	46.0	46.0	23.0	36.0	20.0	40.0	39.4	
EFFLUENT (MG/L)	3.6	51.0	15.0	25.0	12.0	13.0	3.0	3.0	1.3	6.8	5.0	6.0	12.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.88	33.66	15.60	31.25	11.28	10.27	2.91	2.67	1.00	7.54	7.60	4.74	11.86	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	16.0	79.0	30.0	11.0	41.0	47.0	30.0	30.0	25.0	20.0	18.0	29.0	31.3	
EFFLUENT (MG/L)	7.2	19.0	59.0	11.0	18.0	15.0	9.0	9.0	5.0	10.0	7.0	6.0	14.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	7.77	12.54	61.36	13.75	16.92	11.85	8.73	8.01	3.85	11.10	10.64	4.74	14.31	
TOTAL PHOSPHORUS														
INFLUENT (MG/L)	1.9	6.2	4.9	1.3	3.2	3.4	3.3	3.3	3.6	1.8	0.9	3.0	3.1	
EFFLUENT (MG/L)	3.1	4.3	4.1	1.6	3.0	1.9	3.4	3.4	3.7	2.4	1.4	3.3	3.0	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	3.34	2.83	4.26	2.00	2.82	1.50	3.29	3.02	2.84	2.66	2.12	2.60	2.94	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - ENVIRONMENTAL ASSESSMENT BEING CONDUCTED	1991	1992	

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : DEEP RIVER
PLANT : DEEP RIVER WPCP
WORKS NUMBER : 120000612
TREATMENT : PRIMARY
:
:
DESIGN CAPACITY : 2.18 (1000 M3)

REGION : SOUTHEAST
DISTRICT : RENFREW
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : OTTAWA RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 4,230

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.22	1.70	2.13	1.96	2.02	1.91	2.12	2.88	1.78	2.03	1.86	1.84	2.04	
BOD5														
INFLUENT (MG/L)	70.0	160.0	90.0	95.0	145.0	88.0	115.0	105.0	52.0	66.0	80.0	78.0	95.3	
EFFLUENT (MG/L)	60.0	39.0	50.0	35.0	80.0	66.0	82.0	55.0	44.0	27.0	56.0	40.0	52.8	
LOADING (KG/D)	133.20	66.30	106.50	68.60	161.60	126.06	173.84	158.40	78.32	54.81	104.16	73.60	107.71	
PERCENT REMOVAL	14	76	44	63	45	25	29	48	15	59	30	49	45	
PERCENT REMOVAL LIMITS													30	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	96.0	395.0	72.0	95.0	139.0	100.0	165.0	115.0	124.0	70.0	92.0	83.0	128.8	
EFFLUENT (MG/L)	49.0	72.0	41.0	40.0	77.0	52.0	84.0	51.0	46.0	51.0	39.0	41.0	53.6	
LOADING (KG/D)	108.78	122.40	87.33	78.40	155.54	99.32	178.08	146.88	81.88	103.53	72.54	75.44	109.34	
PERCENT REMOVAL	49	82	43	58	45	48	49	56	63	27	58	51	58	
PERCENT REMOVAL LIMITS													50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.8	10.7	4.4	5.4	3.9	8.1	6.9	7.5	5.1	5.3	5.1	7.0	6.3	
EFFLUENT (MG/L)	4.6	3.7	4.5	3.1	4.1	8.5	5.5	4.1	4.7	3.4	3.6	3.9	4.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	10.21	6.29	9.58	6.07	8.28	16.23	11.66	11.80	8.36	6.90	6.69	7.17	9.18	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30%	YES
SS	50%	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : DELORO
PLANT : DELORO WPCP
WORKS NUMBER : 120000970
TREATMENT : COMMUNAL SEPTIC TANK
:
:
DESIGN CAPACITY : 1.74 (1000 M3)

REGION : SOUTHEAST
DISTRICT : HASTINGS
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : MOIRA RIVER
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 157

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	0.09	ND	ND	0.09	0.09	ND	ND	ND	ND	0.09	
BOD5														
INFLUENT (MG/L)	ND	50.0	65.0	25.0	175.0	115.0	610.0	125.0	110.0	126.0	131.0	126.0	150.7	
EFFLUENT (MG/L)	ND	3.8	ND	2.0	1.5	6.0	3.0	3.1	1.0	2.0	2.0	3.0	2.7	
LOADING (KG/D)	ND	ND	ND	0.18	ND	ND	0.27	0.27	ND	ND	ND	ND	0.24	
PERCENT REMOVAL		92		92	99	95		98	99	98	98	98	98	
PERCENT REMOVAL LIMITS													30	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	58.0	48.0	106.0	38.0	55.0	93.0	807.0	260.0	120.0	104.0	155.0	160.0	167.0	
EFFLUENT (MG/L)	2.5	7.4	ND	5.0	3.8	3.8	6.0	5.3	4.6	4.8	5.0	5.8	4.9	
LOADING (KG/D)	ND	ND	ND	0.45	ND	ND	0.54	0.47	ND	ND	ND	ND	0.44	
PERCENT REMOVAL	96	85		87	93	96	99	98	96	95	97	96	97	
PERCENT REMOVAL LIMITS													50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.3	2.2	2.9	2.1	2.7	7.3	10.9	4.3	5.8	4.8	5.1	5.4	4.7	
EFFLUENT (MG/L)	0.5	0.7	ND	0.4	0.4	1.3	1.0	1.1	1.2	1.1	1.5	1.8	1.0	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	0.03	ND	ND	0.09	0.09	ND	ND	ND	ND	0.09	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30%	INSUFFICIENT DATA
SS	50%	INSUFFICIENT DATA
TP	NA	INSUFFICIENT DATA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
M - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : DESERONTO
PLANT : DESERONTO WPCP
WORKS NUMBER : 1100009B0
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 1.36 (1000 M3)

REGION : SOUTHEAST
DISTRICT : HASTINGS
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BAY OF QUINTE
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,732

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.23	1.44	1.62	1.40	1.09	1.16	1.14	1.24	1.22	1.16	1.24	1.08	1.25	
BOD5														
INFLUENT (MG/L)	77.0	132.0	223.0	155.0	98.0	161.0	83.0	105.0	77.0	88.0	63.0	81.0	111.9	
EFFLUENT (MG/L)	11.5	8.0	11.4	18.0	8.0	3.0	3.7	4.4	4.7	5.2	10.5	11.3	8.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	14.14	11.52	18.46	25.20	8.72	3.48	4.21	5.45	5.73	6.03	13.02	12.20	10.38	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	60.0	62.0	63.0	55.0	92.0	124.0	89.0	99.0	57.0	80.0	68.0	122.0	80.9	
EFFLUENT (MG/L)	25.0	11.4	12.1	13.8	11.7	5.3	4.4	11.1	14.0	17.4	21.5	12.3	13.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	30.75	16.41	19.60	19.32	12.75	6.14	5.01	13.76	17.08	20.18	26.66	13.28	16.63	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	1.5	2.7	4.4	2.2	2.3	3.6	3.3	3.0	4.0	4.0	3.6	4.7	3.3	
EFFLUENT (MG/L)	0.8	0.7	0.4	0.8	0.5	0.3	0.4	0.4	0.7	0.8	0.9	0.6	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.98	1.00	0.64	1.12	0.54	0.34	0.45	0.49	0.85	0.92	1.11	0.64	0.75	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : EAST HAWKESBURY
PLANT : CHUTE A BLONDEAU WPCP IN OP. 1987
WORKS NUMBER : 110003399
TREATMENT : EXTENDED AERATION
DESIGN CAPACITY : 0.10 (1000 M3)

REGION : SOUTHEAST
DISTRICT : PRESCOTT AND RUSSELL
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : OTTAWA RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 165

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.08	0.07	0.08	0.08	0.07	0.08	0.03	0.02	0.02	0.02	0.04	0.03	0.05	
BOD5														
INFLUENT (MG/L)	88.0	163.0	154.0	48.0	135.0	136.0	86.0	157.0	179.0	139.0	118.0	355.0	146.5	
EFFLUENT (MG/L)	8.7	9.9	14.6	2.3	3.8	12.0	8.0	19.3	5.7	8.0	5.3	ND	8.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.69	0.69	1.16	0.18	0.26	0.96	0.24	0.38	0.11	0.16	0.21	ND	0.45	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	115.0	382.0	243.0	55.0	233.0	230.0	144.0	220.0	324.0	284.0	135.0	197.0	213.5	
EFFLUENT (MG/L)	5.7	14.3	19.2	8.0	10.8	12.0	11.8	15.8	10.2	7.3	11.0	12.5	11.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.45	1.00	1.53	0.64	0.75	0.96	0.35	0.31	0.20	0.14	0.44	0.37	0.58	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.2	9.3	5.2	3.6	5.5	8.0	7.3	7.6	11.7	13.3	6.2	9.9	8.0	
EFFLUENT (MG/L)	4.0	3.6	3.8	3.3	4.8	5.2	6.6	6.5	6.6	8.0	4.6	7.6	5.4	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.32	0.25	0.30	0.26	0.33	0.41	0.19	0.13	0.13	0.16	0.18	0.22	0.27	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : EGANVILLE
PLANT : EGANVILLE WPCP
WORKS NUMBER : 110000141
TREATMENT : EXTENDED AERATION
:
:
DESIGN CAPACITY : 0.76 (1000 M3)

REGION : SOUTHEAST
DISTRICT : RENFREW
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BONNECHERE RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,219

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.56	0.61	0.65	0.86	0.82	0.61	0.55	0.54	0.51	0.52	0.52	0.48	0.60	
BOD5														
INFLUENT (MG/L)	77.0	42.0	105.0	88.0	88.0	115.0	105.0	110.0	78.0	89.0	155.0	173.0	102.1	
EFFLUENT (MG/L)	7.3	4.6	13.0	3.5	4.0	3.0	3.0	2.0	2.6	1.1	3.0	3.0	4.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	4.08	2.80	8.45	3.01	3.28	1.83	1.65	1.08	1.32	0.57	1.56	1.44	2.52	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	100.0	179.0	185.0	70.0	189.0	86.0	127.0	164.0	168.0	97.0	165.0	249.0	148.3	
EFFLUENT (MG/L)	18.0	28.0	19.0	9.0	18.0	5.0	6.2	11.0	8.0	8.0	13.0	10.0	12.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	10.08	17.08	12.35	7.74	14.76	3.05	3.41	5.94	4.08	4.16	6.76	4.80	7.68	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.5	4.4	5.4	4.1	4.4	4.9	4.5	4.6	4.9	4.9	ND	4.8	4.8	
EFFLUENT (MG/L)	0.7	0.6	0.5	0.3	0.4	0.6	0.5	0.5	0.5	0.4	0.6	0.7	0.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.39	0.36	0.32	0.25	0.32	0.36	0.27	0.27	0.25	0.20	0.31	0.33	0.30	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ERNESTOWN
PLANT : AMHERSTVIEW LAGOON
WORKS NUMBER : 110000196
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS
DESIGN CAPACITY : 2.39 (1000 M3)

REGION : SOUTHEAST
DISTRICT : LENNOX & ADDINGTON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : COLLINS CR. N.CHANNEL
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 6,900

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.13	2.33	3.32	3.08	2.25	2.00	2.10	2.07	2.28	2.03	2.20	1.86	2.30	
LAGOON DISCHARGE	65.96	67.57	102.72	92.36	69.61	59.91	65.02	67.07	68.23	62.93	68.26	57.67	70.61	
BOD5														
INFLUENT (MG/L)	99.3	ND	110.0	155.0	126.0	176.0	127.0	120.0	115.0	150.0	69.0	172.0	129.8	
EFFLUENT (MG/L)	14.0	ND	10.0	35.5	20.8	27.0	28.6	23.3	10.5	15.5	16.7	27.0	20.8	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	29.82	ND	33.20	109.34	46.80	54.00	60.06	48.23	23.94	31.46	36.74	50.22	47.84	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	126.3	ND	85.0	71.3	122.0	188.0	116.0	147.0	132.0	261.0	97.0	348.0	154.0	
EFFLUENT (MG/L)	43.0	ND	15.0	81.7	45.2	78.3	89.3	96.4	73.5	70.2	48.7	40.3	62.0W	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	91.59	ND	49.80	251.63	101.70	156.60	187.53	199.54	167.58	142.50	107.14	74.95	142.60	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.6	ND	5.3	5.3	5.9	8.4	6.0	6.9	7.3	7.3	4.5	6.4	6.4	
EFFLUENT (MG/L)	4.2	ND	2.5	4.1	2.8	3.0	2.6	2.5	3.3	3.4	2.8	3.7	3.2	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	8.94	ND	8.30	12.62	6.30	6.00	5.46	5.17	7.52	6.90	6.16	6.88	7.36	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	NO
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
W - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM - PUMPING STATION MODIFICATION			

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ERNESTOWN
PLANT : ODESSA WPCP
WORKS NUMBER : 110002041
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 0.90 (1000 M3)

REGION : SOUTHEAST
DISTRICT : LENNOX & ADDINGTON
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : MILLHAVEN CREEK
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 973

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.81	0.91	1.63	1.32	0.87	0.68	0.62	0.65	0.65	1.21	1.72	1.08	1.01	
BOD5														
INFLUENT (MG/L)	44.7	47.0	18.0	57.0	85.0	102.0	79.0	53.0	82.0	48.0	27.0	33.0	56.3	
EFFLUENT (MG/L)	4.3	8.0	12.0	4.1	2.6	3.6	2.2	0.8	1.9	2.0	2.3	2.0	3.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.48	7.28	19.56	5.41	2.26	2.44	1.36	0.52	1.23	2.42	3.95	2.16	3.84	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	99.7	44.0	47.0	42.0	228.0	85.0	70.0	122.0	169.0	100.0	31.0	54.0	91.0	
EFFLUENT (MG/L)	15.3	12.3	23.5	17.7	7.0	11.6	12.5	12.8	15.5	21.0	22.0	23.7	16.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	12.39	11.19	38.30	23.36	6.09	7.88	7.75	8.32	10.07	25.41	37.84	25.59	16.36	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.1	3.2	3.3	2.8	4.6	3.9	3.9	3.9	5.6	3.3	1.8	3.0	3.5	
EFFLUENT (MG/L)	0.7	0.7	1.0	0.8	0.4	0.8	1.1*	0.9	1.0	0.9	0.8	0.9	0.8	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.56	0.63	1.63	1.05	0.34	0.54	0.68	0.58	0.65	1.08	1.37	0.97	0.81	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED			

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : FRANKFORD
PLANT : FRANKFORD WPCP
WORKS NUMBER : 110000267
TREATMENT : CONTACT STABILIZATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 1.36 (1000 M3)

REGION : SOUTHEAST
DISTRICT : HASTINGS
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : TRENT RIVER
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,190

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.11	1.08	1.45	1.56	0.94	0.76	0.68	0.59	1.03	1.19	1.14	1.14	1.06	
BOD5														
INFLUENT (MG/L)	65.0	87.0	119.0	82.0	102.0	103.0	127.0	92.0	163.0	226.0	182.0	228.0	131.3	
EFFLUENT (MG/L)	23.8	7.4	11.5	17.3	6.4	8.0	ND	6.4	8.5	9.5	10.6	15.0	11.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	26.41	7.99	16.67	26.98	6.01	6.08	ND	3.77	8.75	11.30	12.08	17.10	11.98	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	119.0	123.0	115.0	74.0	112.0	130.0	124.0	157.0	97.0	134.0	88.0	115.0	115.7	
EFFLUENT (MG/L)	23.9	16.3	23.5	19.2	15.9	9.6	ND	6.9	7.7	9.3	13.0	17.8	14.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	26.52	17.60	34.07	29.95	14.94	7.29	ND	4.07	7.93	11.06	14.82	20.29	15.69	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.9	4.3	4.8	4.3	5.6	4.3	4.1	4.9	6.1	6.6	5.3	6.9	5.2	
EFFLUENT (MG/L)	0.9	0.7	0.7	0.9	0.4	0.5	ND	0.7	0.6	0.4	ND	0.5	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.99	0.75	1.01	1.40	0.37	0.38	ND	0.41	0.61	0.47	ND	0.57	0.64	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : GANANOQUE
PLANT : GANANOQUE LAGOON
WORKS NUMBER : 110000285
TREATMENT : CONVENTIONAL LAGOON SEASONAL
:
:
DESIGN CAPACITY : 3.27 (1000 M3)

REGION : SOUTHEAST
DISTRICT : LEEDS AND GRENVILLE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : STOCKING CR GANANOQUE R
MINOR BASIN : ST. LAWRENCE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 4,900

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	5.00	5.20	6.19	5.76	5.41	4.19	4.02	4.77	3.41	5.10	6.23	4.80	5.01	
LAGOON DISCHARGE	156.10	150.90	191.90	172.80	167.80	ND	ND	ND	102.40	158.80	186.80	150.30	159.76	
BOD5														
INFLUENT (MG/L)	38.0	30.0	47.0	80.0	120.0	ND	64.0	90.0	66.0	33.0	32.0	53.0	59.4	
EFFLUENT (MG/L)	10.1	11.5	18.5	22.5	12.4	ND	ND	ND	4.7	3.5	2.0	4.5	10.0	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	50.50	59.80	114.51	129.60	67.08	ND	ND	ND	16.02	17.85	12.46	21.60	50.10	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	94.0	68.0	74.0	84.0	146.0	ND	86.0	104.0	132.0	75.0	104.0	113.0	98.2	
EFFLUENT (MG/L)	21.5	40.0	30.0	60.0	28.1	ND	ND	ND	5.0	8.0	7.5	10.5	23.4	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	107.50	208.00	185.70	345.60	152.02	ND	ND	ND	17.05	40.80	46.72	50.40	117.23	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.5	3.3	3.4	3.0	2.9	ND	4.7	2.7	4.4	2.9	3.0	4.8	3.5	
EFFLUENT (MG/L)	2.2	2.3	2.5	1.8	2.2	ND	ND	ND	2.1	2.0	1.8	1.9	2.1	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	11.00	11.96	15.47	10.36	11.90	ND	ND	ND	7.16	10.20	11.21	9.12	10.52	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW	1988	1995	1995
COLLECTION SYSTEM - INFILTRATION PROBLEMS BEING CORRECTED	1988	1995	1995
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED	1990	1991	1991

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : GLOUCESTER
PLANT : GREEN CREEK WPCP
WORKS NUMBER : 120000729
TREATMENT : PRIMARY
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 363.68 (1000 M3)

REGION : SOUTHEAST
DISTRICT : OTTAWA-CARLETON, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : OTTAWA RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 450,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	332.00	397.00	452.30	495.10	443.60	407.90	409.30	491.00	419.30	455.50	528.60	337.70	430.78	
BOD5														
INFLUENT (MG/L)	100.0	73.0	89.0	72.0	75.6	78.0	83.0	74.0	98.0	111.0	92.0	104.0	87.5	
EFFLUENT (MG/L)	66.0	59.0	59.4	53.3	42.4	54.8	40.1	40.8	36.9	50.3	41.5	41.8	48.9	
LOADING (KG/D)	1912.00	3423.00	6866.62	6388.83	8808.64	2352.92	6412.93	32.80	5472.17	2911.65	1936.90	4115.86	21065.14	
PERCENT REMOVAL	34	19	33	26	44	30	52	45	62	55	55	60	44*	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	122.0	91.0	106.0	97.0	98.5	131.0	101.0	102.0	137.0	141.0	142.0	142.0	117.5	
EFFLUENT (MG/L)	56.0	45.0	53.2	41.6	44.8	47.9	41.8	35.5	42.4	43.9	43.4	38.2	44.5	
LOADING (KG/D)	8592.00	7865.00	4062.36	596.16	9873.28	9538.41	7108.74	7430.50	7778.32	9996.45	2941.24	2900.14	19169.71	
PERCENT REMOVAL	54	51	50	57	55	63	59	65	69	69	69	73	62*	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.9	3.1	3.6	3.1	3.6	3.6	3.2	2.8	3.7	3.7	3.3	3.8	3.5	
EFFLUENT (MG/L)	3.5*	3.4*	3.1*	2.9*	3.0*	3.2*	2.7*	2.5*	1.7*	1.7*	1.8*	1.6*	2.6	12
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	1162.00	1349.80	1402.13	1435.79	1330.80	1305.28	1105.11	1227.50	712.81	774.35	951.48	540.32	1120.03	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	50%	NO
SS	70%	NO
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - CONSTRUCTION		1988/12	1989/12
FACILTY EXPANSION/UPGRADING - UPGRADING TO SECONDARY TREATMENT	1988/12	1992/12	1992/12

1980 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : GOULBOURN
PLANT : MUNSTER LAGOON
WORKS NUMBER : 120001522
TREATMENT : LAGOON AND SPRAY
: SEASONAL DISCHARGE
:
DESIGN CAPACITY : 0.36 (1000 M3)

REGION : SOUTHEAST
DISTRICT : OTTAWA-CARLETON, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NO DISC.TO SURFACE WATER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,300

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND		ND	ND			ND	ND	ND		
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	54.0	22.0	22.0	ND	35.0	ND	ND	33.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	13.0	11.0	12.0	ND	3.0	ND	ND	9.8	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	55.0	332.0	62.0	53.0	60.0	23.0	67.0	ND	ND	93.1	
EFFLUENT (MG/L)	ND	ND	ND	29.0	13.5	62.0	24.0	29.0	18.0	3.0	ND	ND	25.5	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND		ND	ND			ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	3.1	2.0	1.5	1.4	1.7	1.2	2.8	ND	ND	2.0	
EFFLUENT (MG/L)	ND	ND	ND	2.2	1.2	1.0	1.0	1.6	1.3	1.9	ND	ND	1.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND		ND	ND			ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	NO DIRECT DISCHARGE
SS	40.0 MG/L	NO DIRECT DISCHARGE
TP	NA	NO DIRECT DISCHARGE

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
" - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : HAGARTY & RICHARDS
PLANT : KILLALOE STN.WPCP
WORKS NUMBER : 110001532
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 0.51 (1000 M3)

REGION : SOUTHEAST
DISTRICT : RENFREW
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BRUDENELL CREEK
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 670

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.27	0.27	0.29	0.54	0.49	0.28	0.20	0.18	0.20	0.25	0.29	0.22	0.29	
BOD5														
INFLUENT (MG/L)	157.0	64.0	280.0	155.0	166.0	265.0	440.0	154.0	72.0	135.0	170.0	106.0	180.3	
EFFLUENT (MG/L)	3.3	5.5	2.5	5.0	5.0	1.5	6.5	1.3	2.0	1.3	3.5	2.0	3.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.89	1.48	0.72	2.70	2.45	0.42	1.30	0.23	0.40	0.32	1.01	0.44	0.96	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	238.0	149.0	318.0	107.0	183.0	277.0	490.0	208.0	198.0	254.0	251.0	167.0	236.7	
EFFLUENT (MG/L)	8.1	7.9	7.2	6.8	6.4	8.8	12.0	6.4	7.2	9.3	9.2	9.5	8.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2.18	2.13	2.08	3.67	3.13	2.46	2.40	1.15	1.44	2.32	2.66	2.09	2.38	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.7	5.5	9.8	6.0	6.7	8.5	13.2	6.9	7.5	6.8	7.1	6.5	7.8	
EFFLUENT (MG/L)	0.8	0.7	0.5	0.6	0.6	0.5	0.8	0.7	0.8	0.6	0.7	0.9	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.21	0.18	0.14	0.32	0.29	0.14	0.16	0.12	0.16	0.15	0.20	0.19	0.20	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : HAWKESBURY
PLANT : HAWKESBURY WPCP
WORKS NUMBER : 110002283
TREATMENT : MODIFIED ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 12.27 (1000 M3)

REGION : SOUTHEAST
DISTRICT : PRESCOTT AND RUSSELL
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : OTTAWA RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 9,680

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	9.20	9.76	12.92	14.19	9.71	9.01	8.81	10.58	8.12	9.98	10.85	5.62	9.90	
BOD5														
INFLUENT (MG/L)	33.0	38.0	64.0	72.0		68.0	64.0	58.0	76.0	65.0	51.0	50.0	60.8	
EFFLUENT (MG/L)	7.3	3.5	6.8	6.8		5.1	5.0	8.0	8.0	4.8	3.0	22.0	7.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	67.16	34.16	87.85	96.49	32.0	45.95	44.05	84.64	64.96	47.90	32.55	123.64	69.30	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	113.0	108.4	70.0	70.0	96.0	77.0	96.0	60.0	106.0	86.0	65.0	73.0	85.0	
EFFLUENT (MG/L)	11.5	10.5	12.5	16.2	14.1	11.4	12.2	11.5	14.0	8.0	10.4	14.3	12.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	105.80	102.48	161.50	229.87	136.91	102.71	107.48	121.67	113.68	79.84	112.84	80.36	120.78	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.5	3.3	2.5	2.9	3.1	3.0	3.8	2.9	3.0	3.8	2.5	3.8	3.2	
EFFLUENT (MG/L)	0.1	0.5	0.6	0.6	0.6	0.5	0.7	0.8	0.8	0.7	0.5	0.5	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.92	4.88	7.75	8.51	5.82	4.50	6.16	8.46	6.49	6.98	5.42	2.81	5.94	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : IROQUOIS
PLANT : IROQUOIS WPCP
WORKS NUMBER : 120000159
TREATMENT : PRIMARY
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 5.00 (1000 M3)

REGION : SOUTHEAST
DISTRICT : STORMONT, DUNDAS AND GLENGARRY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : ST. LAWRENCE RIVER
MINOR BASIN : ST. LAWRENCE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,212

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	4.50	3.34	3.91	4.06	3.32	3.22	2.96	2.76	2.88	3.99	4.75	2.78	3.54	
BOD5														
INFLUENT (MG/L)	20.0	ND	60.0	160.0	40.0	140.0	58.0	ND	35.0	ND	30.0	28.0	63.4	
EFFLUENT (MG/L)	9.0	ND	4.0	75.0	12.0	36.0	8.0	ND	0.1	15.0	5.0	10.0	17.4	
LOADING (KG/D)	40.50	ND	15.64	304.50	39.84	115.92	23.68	ND	0.28	59.85	23.75	27.80	61.60	
PERCENT REMOVAL	55		93	53	70	74	86				83	64	73	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	50.0	ND	90.0	215.0	256.0	221.0	268.0	287.0	261.0	ND	86.0	49.0	178.3	
EFFLUENT (MG/L)	43.0	ND	25.0	90.0	57.0	94.0	68.0	39.0	376.0	81.0	70.0	56.0	90.8	
LOADING (KG/D)	193.50	ND	97.75	365.40	189.24	302.68	201.28	107.64	1082.88	323.19	332.50	155.68	321.43	
PERCENT REMOVAL	14		72	58	78	57	75	86	ND		19	ND	49*	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	1.5	ND	2.4	3.4	ND	4.1	2.1	1.4	3.4	ND	1.8	2.1	2.5	
EFFLUENT (MG/L)	1.5*	ND	0.1	1.2*	0.2	1.7*	0.3	0.2	0.3	0.7	0.3	0.3	0.6	3
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	6.75	ND	0.39	4.87	0.66	5.47	0.88	0.55	0.86	2.79	1.42	0.83	2.12	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	50%	YES
SS	70%	NO
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
EQUIPMENT/MAINTENANCE - EXISTING EQUIPMENT BEING REPAIRED	1988/10	1988/12	1988/12

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : KEMPTVILLE
PLANT : KEMPTVILLE WPCP (TERTIARY PROPSED)
WORKS NUMBER : 120000113
TREATMENT : PRIMARY
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 2.27 (1000 M3)

REGION : SOUTHEAST
DISTRICT : LEEDS AND GRENVILLE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : KEMPTVILLE CREEK
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,400

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.97	1.88	2.27	2.70	2.34	1.55	1.30	1.13	1.16	1.53	2.99	2.40	1.94	
BOD5														
INFLUENT (MG/L)	32.0	22.0	45.0	25.0	115.0	120.0	ND	92.0	ND	65.0	84.0	44.0	64.4	
EFFLUENT (MG/L)	12.0	14.0	12.0	10.0	33.0	47.0	ND	32.0	ND	28.0	25.0	14.0	22.7	
LOADING (KG/D)	23.64	26.32	27.24	27.00	77.22	72.85	ND	36.16	ND	42.84	74.75	33.60	44.04	
PERCENT REMOVAL	63	36	73	60	71	61		65		57	70	68	65	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	105.0	66.0	75.0	40.0	30.0	105.0	ND	55.0	94.0	73.0	75.0	49.0	69.7	
EFFLUENT (MG/L)	15.0	31.0	20.0	22.0	18.0	20.0	ND	20.0	29.0	38.0	16.0	19.0	22.5	
LOADING (KG/D)	29.55	58.28	45.40	59.40	42.12	31.00	ND	22.60	33.64	58.14	47.84	45.60	43.65	
PERCENT REMOVAL	86	53	73	45	40	81		64	69	48	79	61	68*	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.5	3.4	3.7	2.5	6.7	5.2	ND	8.7	5.8	4.5	4.2	3.7	4.7	
EFFLUENT (MG/L)	1.3*	1.4*	1.8*	1.7*	1.0	2.1*	ND	2.5*	3.0*	2.2*	1.4*	1.9*	1.8	10
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	2.56	2.63	4.08	4.59	2.34	3.25	ND	2.82	3.48	3.36	4.18	4.56	3.49	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	50%	YES
SS	70%	NO
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - SAMPLING PROGRAM BEING MODIFIED	1989	1994	1995
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED	1989	1994	1995
FACILTY EXPANSION/UPGRADING - ENVIRONMENTAL ASSESSMENT BEING CONDUCTED	1989	1994	1995

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : KINGSTON
PLANT : KINGSTON WPCP
WORKS NUMBER : 120001050
TREATMENT : PRIMARY
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 61.37 (1000 M3)

REGION : SOUTHEAST
DISTRICT : FRONTENAC
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : ST.LAWRENCE RIVER
MINOR BASIN : ST. LAWRENCE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 67,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	55.66	59.13	67.88	63.55	54.49	50.28	52.57	52.48	48.17	59.86	71.96	51.17	57.27	
BOD5														
INFLUENT (MG/L)	78.0	57.0	51.0	67.0	106.0	132.0	103.0	48.0	88.0	85.0	66.0	81.0	80.2	
EFFLUENT (MG/L)	24.0	17.0	13.0	28.0	24.0	30.0	37.0	13.0	21.0	27.0	19.0	25.0	23.2	
LOADING (KG/D)	1335.84	1005.21	882.44	1779.40	1307.76	1508.40	1945.09	682.24	1011.57	1616.22	1367.24	1279.25	1328.66	
PERCENT REMOVAL	69	70	75	58	77	77	64	73	76	68	71	69	71	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	93.0	51.0	64.0	60.0	95.0	119.0	134.0	55.0	158.0	87.0	75.0	84.0	89.6	
EFFLUENT (MG/L)	15.0	15.0	12.0	14.0	15.0	17.0	28.0	15.0	24.0	21.0	17.0	19.0	17.7	
LOADING (KG/D)	834.90	886.95	814.56	889.70	817.35	854.76	1471.96	787.20	1156.08	1257.06	1223.32	972.23	1013.68	
PERCENT REMOVAL	84	71	81	77	84	86	79	73	85	76	77	77	80	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.0	3.6	3.5	3.2	4.7	4.2	4.0	3.3	4.8	4.3	3.4	4.1	3.9	
EFFLUENT (MG/L)	0.5	0.7	0.4	ND	0.6	0.5	0.8	0.5	0.7	1.0	0.4	0.3	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	27.83	41.39	27.15	ND	32.69	25.14	42.05	26.24	33.71	59.86	28.78	15.35	34.36	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	50%	YES
SS	70%	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : KINGSTON TWP
PLANT : KINGSTON WPCP
WORKS NUMBER : 110000365
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 25.00 (1000 M3)

REGION : SOUTHEAST
DISTRICT : FRONTENAC
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : LAKE ONTARIO
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 28,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	17.00	17.93	22.33	20.48	17.19	15.02	15.10	13.45	15.76	19.71	20.89	16.61	17.62	
BOD5														
INFLUENT (MG/L)	109.0	91.0	87.0	56.0	144.0	227.0	238.0	132.0	124.0	78.0	107.0	108.0	125.1	
EFFLUENT (MG/L)	6.2	10.4	10.4	20.2	5.9	5.7	5.2	3.8	4.4	4.6	4.1	4.9	7.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	105.40	186.47	232.23	413.69	101.42	85.61	78.52	51.11	69.34	90.66	85.64	81.38	126.86	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	128.0	62.0	91.0	81.0	194.0	295.0	364.0	120.0	128.0	86.0	86.0	96.0	144.3	
EFFLUENT (MG/L)	8.1	7.5	6.5	10.1	7.6	4.8	5.1	5.3	7.2	6.1	4.7	4.9	6.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	137.70	134.47	145.14	206.84	130.64	72.09	77.01	71.28	113.47	120.23	98.18	81.38	114.53	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.4	4.0	3.6	3.2	6.6	11.4	10.7	5.5	6.1	4.9	5.4	4.5	5.9	
EFFLUENT (MG/L)	1.0	0.5	0.5	0.9	0.8	0.6	0.7	0.7	0.7	0.7	0.7	0.5	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	17.00	8.96	11.16	18.43	13.75	9.01	10.57	9.41	11.03	13.79	14.62	8.30	12.33	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : L'ORIGNAL
PLANT : L'ORIGNAL WPCP
WORKS NUMBER : 110001701
TREATMENT : EXTENDED AERATION
:
:
DESIGN CAPACITY : 0.95 (1000 M3)

REGION : SOUTHEAST
DISTRICT : PRESCOTT AND RUSSELL
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : OTTAWA RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,523

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.59	0.60	0.71	0.95	0.75	0.72	0.62	0.74	0.64	0.85	0.93	0.63	0.73	
BOD5														
INFLUENT (MG/L)	26.0	22.0	68.0	37.0	81.0	86.0	76.0	70.0	92.0	37.0	ND	50.0	58.6	
EFFLUENT (MG/L)	5.0	7.3	4.4	2.8	5.5	6.4	2.0	4.6	8.4	3.7	3.0	4.0	4.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2.95	4.38	3.12	2.66	4.12	4.60	1.24	3.40	5.37	3.14	2.79	2.52	3.50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	83.0	62.0	57.0	60.0	50.0	51.0	108.0	48.0	78.0	109.0	ND	53.0	69.0	
EFFLUENT (MG/L)	9.7	13.0	10.8	8.0	8.3	8.4	7.5	6.6	6.5	5.7	10.0	12.0	8.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	5.72	7.80	7.66	7.60	6.22	6.04	4.65	4.88	4.16	4.84	9.30	7.56	6.50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.2	4.4	2.6	3.7	2.5	3.6	2.9	3.4	3.8	5.5	3.4	2.6	3.7	
EFFLUENT (MG/L)	2.7	2.4	1.8	2.5	3.4	1.9	2.2	2.5	3.5	3.9	3.2	4.0	2.8	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	1.59	1.44	1.27	2.37	2.55	1.36	1.36	1.85	2.24	3.31	2.97	2.52	2.04	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : LANCASTER
PLANT : LANCASTER LAGOON
WORKS NUMBER : 110001925
TREATMENT : CONVENTIONAL LAGOON SEASONAL
:
:
DESIGN CAPACITY : 0.59 (1000 M3)

REGION : SOUTHEAST
DISTRICT : STORMONT, DUNDAS AND GLENGARRY
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : FINNEY CREEK
MINOR BASIN : ST. LAWRENCE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 700

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.35	0.43	0.47	0.60	0.55	0.33	0.32	0.28	0.30	0.39	0.63	0.40	0.42	
LAGOON DISCHARGE	ND	ND	ND	ND	35.63	ND	ND	ND	ND	ND	40.46	ND	38.05	
BOD5														
INFLUENT (MG/L)	34.0	88.0	63.0	41.0	43.0	95.0	91.0	146.0	117.0	65.0	79.0	190.0	87.7	
EFFLUENT (MG/L)	ND	ND	ND	17.0	5.0	ND	ND	ND	ND	ND	ND	ND	11.0	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	10.20	2.75	ND	ND	ND	ND	ND	ND	ND	4.62	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	114.0	106.0	79.0	76.0	130.0	99.0	134.0	77.0	159.0	197.0	187.0	165.0	126.9	
EFFLUENT (MG/L)	ND	ND	ND	9.0	9.0	ND	ND	ND	ND	ND	ND	ND	9.0	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	5.40	4.95	ND	ND	ND	ND	ND	ND	ND	3.78	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.3	7.3	5.6	5.4	4.7	5.8	4.8	4.4	5.9	6.4	4.9	6.0	5.5	
EFFLUENT (MG/L)	ND	ND	ND	2.1	1.8	ND	ND	ND	ND	ND	ND	ND	2.0	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	1.26	0.99	ND	ND	ND	ND	ND	ND	ND	0.84	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : LEEDS & LANSDOWNE FRONT
PLANT : LANSDOWNE LAGOON
WORKS NUMBER : 110001934
TREATMENT : LAGOON AND SPRAY

DESIGN CAPACITY : 0.33 (1000 M3)

REGION : SOUTHEAST
DISTRICT : LEEDS AND GRENVILLE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : NO DISC.TO SURFACE WATER
MINOR BASIN : ST. LAWRENCE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 546

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.20	0.20	0.23	0.22	0.19	0.16	0.15	0.15	0.15	0.22	0.26	0.18	0.19	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	1.04	27.96	19.51	3.37	ND	ND	ND	12.97	
BOD5														
INFLUENT (MG/L)	49.0	31.0	60.0	195.0	85.0	385.0	111.0	99.0	50.0	98.0	24.0	76.0	105.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	4.0	ND	ND	ND	ND	ND	ND	4.0	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	0.64	ND	ND	ND	ND	ND	ND	0.76	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	43.0	35.0	47.0	48.0	89.0	333.0	65.0	61.0	45.0	174.0	27.0	58.0	85.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	9.0	ND	ND	ND	ND	ND	ND	9.0	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	1.44	ND	ND	ND	ND	ND	ND	1.71	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.0	4.4	4.8	6.6	9.9	23.9	6.1	6.1	4.2	6.5	3.0	5.5	7.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	NO DIRECT DISCHARGE
SS	40.0 MG/L	NO DIRECT DISCHARGE
TP	NA	NO DIRECT DISCHARGE

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MADOC
PLANT : MADOC LAGOON
WORKS NUMBER : 110001051
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 1.36 (1000 M3)

REGION : SOUTHEAST
DISTRICT : HASTINGS
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : DEER CREEK TO MOIRA LAKE
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 850

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.23	0.87	0.89	1.46	0.85	0.69	0.89	0.85	0.93	0.79	0.75	0.86	0.92	
LAGOON DISCHARGE	ND	ND	ND	12.27	ND	ND	ND	ND	ND	ND	ND	ND	12.27	
BOD5														
INFLUENT (MG/L)	ND	84.0	80.0	118.0	90.0	138.0	158.0	200.0	126.0	104.0	97.0	156.0	122.8	
EFFLUENT (MG/L)	ND	ND	ND	18.7	16.5	ND	ND	ND	ND	ND	9.5	ND	14.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	27.30	14.02	ND	ND	ND	ND	ND	7.12	ND	13.71	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	119.0	109.0	115.0	54.0	149.0	163.0	189.0	204.0	110.0	137.0	122.0	266.0	144.8	
EFFLUENT (MG/L)	ND	ND	ND	34.4	31.5	ND	ND	ND	ND	ND	14.0	ND	26.6*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	50.22	26.77	ND	ND	ND	ND	ND	10.50	ND	24.47	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.7	4.1	5.0	3.3	4.3	7.2	6.2	7.8	5.2	5.7	4.9	6.7	5.4	
EFFLUENT (MG/L)	ND	ND	ND	0.5	0.3	ND	ND	ND	ND	ND	0.2	ND	0.3	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	0.73	0.25	ND	ND	ND	ND	ND	0.15	ND	0.28	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	NO
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MARMORA
PLANT : MARMORA WPCP
WORKS NUMBER : 110001863
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 0.86 (1000 M3)

REGION : SOUTHEAST
DISTRICT : HASTINGS
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : CROWE RIVER
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,067

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.62	0.67	0.83	0.91	0.63	0.51	0.48	0.34	0.26	0.59	0.80	0.71	0.61	
BOD5														
INFLUENT (MG/L)	ND	80.0	38.0	5.0	47.0	111.0	138.0	118.0	84.0	37.0	127.0	109.0	81.3	
EFFLUENT (MG/L)	ND	2.6	2.0	2.0	4.5	14.0	4.5	6.2	3.6	1.5	4.7	6.3	4.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	1.74	1.66	1.82	2.83	7.14	2.16	2.10	0.93	0.88	3.76	4.47	2.87	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	178.0	120.0	117.0	94.0	124.0	138.0	118.0	140.0	170.0	82.0	123.0	182.0	132.2	
EFFLUENT (MG/L)	8.3	10.7	8.8	6.1	8.7	5.3	5.3	6.7	7.7	7.4	6.8	9.3	7.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	5.14	7.16	7.30	5.55	5.48	2.70	2.54	2.27	2.00	4.36	5.44	6.60	4.64	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.4	5.6	3.2	4.1	3.9	4.3	4.9	4.6	4.3	1.9	3.4	3.4	4.0	
EFFLUENT (MG/L)	0.3	0.3	0.3	0.3	0.4	0.5	0.5	0.4	0.6	0.2	0.4	0.4	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.18	0.20	0.24	0.27	0.25	0.25	0.24	0.13	0.15	0.11	0.32	0.28	0.24	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
- EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MERRICKVILLE
PLANT : MERRICKVILLE WPCP
WORKS NUMBER : 110001729
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 0.50 (1000 M3)

REGION : SOUTHEAST
DISTRICT : LEEDS AND GRENVILLE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : RIDEAU RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 797

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.45	0.44	0.57	0.72	0.59	0.37	0.35	0.37	0.36	0.50	0.78	0.46	0.50	
BOD5														
INFLUENT (MG/L)	91.0	36.0	50.0	71.0	71.0	135.0	ND	ND	64.0	55.0	45.0	66.0	68.4	
EFFLUENT (MG/L)	4.3	7.0	9.0	21.0	12.8	4.0	13.0	2.9	0.9	1.7	4.8	3.0	7.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.93	3.08	5.13	15.12	7.55	1.48	4.55	1.07	0.32	0.85	3.74	1.38	3.50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	122.0	80.0	69.0	44.0	71.0	80.0	ND	ND	92.0	78.0	52.0	75.0	76.3	
EFFLUENT (MG/L)	6.3	4.7	14.0	33.5	34.4	8.3	39.0	8.8	9.7	13.0	16.2	12.0	16.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2.83	2.06	7.98	24.12	20.29	3.07	13.65	3.25	3.49	6.50	12.63	5.52	8.35	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.5	5.1	4.3	3.4	3.8	8.6	ND	ND	5.5	3.8	3.2	3.3	4.9	
EFFLUENT (MG/L)	0.5	0.4	0.6	1.2*	0.4	0.6	ND	0.6	0.3	0.5	0.6	0.6	0.6	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.22	0.17	0.34	0.86	0.23	0.22	ND	0.22	0.10	0.25	0.46	0.27	0.30	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW	1989/04	1989/08	

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MORRISBURG
PLANT : MORRISBURG WPCP
WORKS NUMBER : 120000168
TREATMENT : PRIMARY
: CONVENTIONAL LAGOON CONTINUOUS
:
DESIGN CAPACITY : 2.27 (1000 M3)

REGION : SOUTHEAST
DISTRICT : STORMONT, DUNDAS AND GLENGARRY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : ST. LAWRENCE RIVER
MINOR BASIN : ST. LAWRENCE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,337

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.62	2.95	3.10	3.02	2.96	2.57	2.74	3.09	2.69	3.11	3.52	2.51	2.9[illegible]	
BOD5														
INFLUENT (MG/L)	225.0	145.0	200.0	130.0	28.0	375.0	135.0	46.0	70.0	96.0	18.0	148.0	134.7	
EFFLUENT (MG/L)	51.0	60.0	155.0	115.0	15.0	24.0	22.0	25.0	76.0	64.0	8.0	68.0	56.9	
LOADING (KG/D)	133.62	177.00	480.50	347.30	44.40	61.68	60.28	77.25	204.44	199.04	28.16	170.68	165.58	
PERCENT REMOVAL	77	59	23	12	46	94	84	46	ND	33	56	54	58	
PERCENT REMOVAL LIMITS													30	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	152.0	64.0	100.0	70.0	32.0	384.0	232.0	38.0	96.0	13.0	29.0	86.0	108.0	
EFFLUENT (MG/L)	58.0	32.0	115.0	85.0	36.0	39.0	43.0	41.0	122.0	8.0	29.0	46.0	54.5	
LOADING (KG/D)	151.96	94.40	356.50	256.70	106.56	100.23	117.82	126.69	328.18	24.88	102.08	115.46	158.60	
PERCENT REMOVAL	62	50	ND	ND	ND	90	81	ND	ND	38		47	50	
PERCENT REMOVAL LIMITS													50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.2	2.5	3.9	1.9	1.7	10.6	3.8	2.2	6.3	1.4	0.1	3.2	3.5	
EFFLUENT (MG/L)	1.9	1.3	3.8	2.1	1.4	3.5	2.3	1.7	3.3	1.0	0.6	1.9	2.1	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	4.97	3.83	11.78	6.34	4.14	8.99	6.30	5.25	8.87	3.11	2.11	4.76	6.11	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30%	YES
SS	50%	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY	: NAPANEE	REGION	: SOUTHEAST
PLANT	: NAPANEE WPCP	DISTRICT	: LENNOX & ADDINGTON
WORKS NUMBER	: 120000186	OPERATING AUTHORITY	: MUNICIPAL
TREATMENT	: CONVENTIONAL ACTIVATED SLUDGE	WATERCOURSE	: NAPANEE RIVER
	: PHOSPHORUS REMOVAL-CONTINUOUS	MINOR BASIN	: ONTARIO
	:	MAJOR BASIN	: GREAT LAKES
DESIGN CAPACITY	: 9.09 (1000 M3)	POPULATION SERVED	: 7,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	5.13	5.39	6.65	6.17	5.12	4.53	4.82	4.98	4.32	4.61	4.94	4.49	5.10	
BOD5														
INFLUENT (MG/L)	97.0	95.0	88.0	197.0	131.0	173.0	166.0	159.0	97.0	85.0	138.0	270.0	141.3	
EFFLUENT (MG/L)	30.0	20.3	25.0	36.0	26.7	37.8	31.0	29.8	16.3	2.8	4.5	9.0	22.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	153.90	109.41	166.25	222.12	136.70	171.23	149.42	148.40	70.41	12.90	22.23	40.41	114.24	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	198.0	145.0	123.0	112.0	187.0	227.0	275.0	224.0	231.0	234.0	209.0	379.0	212.0	
EFFLUENT (MG/L)	11.6	9.2	23.3	25.4	15.3	22.9	22.2	55.8	12.1	14.5	15.6	20.5	20.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	59.50	49.58	154.94	156.71	78.33	103.73	107.00	277.88	52.27	66.84	77.06	92.04	105.57	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.6	9.4	7.4	5.2	5.5	8.7	10.2	13.0	10.9	12.5	11.0	12.8	9.6	
EFFLUENT (MG/L)	0.9	0.8	1.3*	1.0	1.3*	1.5*	3.4*	3.9*	1.3*	1.3*	1.0	0.9	1.6	7
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	4.61	4.31	8.64	6.17	6.65	6.79	16.38	19.42	5.61	5.99	4.94	4.04	8.16	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
INFLUENT SEWAGE - ENFORCING SEWER USE BYLAW	1988/08	1989/04	1989
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED	1988/08	1989/04	1989

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NEPEAN
PLANT : CARLTON LODGE WPCP
WORKS NUMBER : 120003307
TREATMENT : EXTENDED AERATION
:
:
DESIGN CAPACITY : 0.04 (1000 M3)

REGION : SOUTHEAST
DISTRICT : OTTAWA-CARLETON, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : RIDEAU RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 170

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.09	0.09	0.09	0.10	0.11	0.18	0.12	0.12	ND	ND	ND	ND	0.11	
BOD5														
INFLUENT (MG/L)	89.0	113.0	108.0	144.0	131.0	45.0	123.0	135.0	ND	ND	ND	ND	111.0	
EFFLUENT (MG/L)	3.0	27.0	4.0	6.0	50.0	3.0	2.0	3.0	ND	ND	ND	ND	12.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.27	2.43	0.36	0.60	5.50	0.54	0.24	0.36	ND	ND	ND	ND	1.35	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	73.0	74.0	106.0	81.0	79.0	232.0	163.0	132.0	ND	ND	ND	ND	117.5	
EFFLUENT (MG/L)	20.0	71.0	31.0	32.0	57.0	21.0	30.0	16.0	ND	ND	ND	ND	34.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.80	6.39	2.79	3.20	6.27	3.78	3.60	1.92	ND	ND	ND	ND	3.83	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.3	3.9	3.4	4.1	2.9	6.0	5.7	4.4	ND	ND	ND	ND	4.5	
EFFLUENT (MG/L)	2.9	3.2	3.4	3.1	4.6	3.2	3.2	2.4	ND	ND	ND	ND	3.3	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.26	0.28	0.30	0.31	0.50	0.57	0.38	0.28	ND	ND	ND	ND	0.36	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	INSUFFICIENT DATA
SS	25.0 MG/L	INSUFFICIENT DATA
TP	NA	INSUFFICIENT DATA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

OPERATIONAL/PROCESS - PHASING OUT EXISTING FACILITY

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NEPEAN
PLANT : WATTS CREEK WPCP
WORKS NUMBER : 120000701
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 29.54 (1000 M3)

REGION : SOUTHEAST
DISTRICT : OTTAWA-CARLETON, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : WATTS CREEK
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 52,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	28.30	30.20	33.40	41.50	31.30	24.60	25.00	26.00	25.40	32.10	38.40	27.10	30.28	
BOD5														
INFLUENT (MG/L)	96.0	92.0	92.0	56.0	79.0	109.0	106.0	94.0	98.0	66.0	76.0	122.0	92.2	
EFFLUENT (MG/L)	9.0	8.0	10.0	11.0	10.0	12.0	13.0	13.0	14.0	20.0	22.0	12.0	12.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	254.70	241.60	334.00	456.50	313.00	295.20	325.00	338.00	355.60	642.00	844.80	325.20	387.58	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	126.0	111.0	101.0	68.0	33.0	120.0	109.0	116.0	113.0	110.0	90.0	162.0	104.9	
EFFLUENT (MG/L)	16.0	9.0	9.0	8.0	8.0	10.0	9.0	9.0	9.0	7.0	8.0	9.0	9.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	452.80	271.80	300.60	332.00	250.40	246.00	225.00	234.00	228.60	224.70	307.20	243.90	281.60	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.3	4.0	3.8	2.9	3.9	4.7	4.1	4.2	4.5	3.9	3.2	5.0	4.0	
EFFLUENT (MG/L)	0.8	0.9	0.8	0.9	0.8	0.8	0.8	0.9	0.9	0.8	0.9	0.9	0.9	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	22.64	27.18	26.72	37.35	25.04	19.68	20.00	23.40	22.86	25.68	34.56	24.39	27.25	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : OSNABRUCK
PLANT : INGLESIDE WPCP
WORKS NUMBER : 120000140
TREATMENT : PRIMARY

DESIGN CAPACITY : 1.57 (1000 M3)

REGION : SOUTHEAST
DISTRICT : STORMONT, DUNDAS AND GLENGARRY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : ST. LAWRENCE RIVER
MINOR BASIN : ST. LAWRENCE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.63	0.69	1.02	1.53	0.97	0.79	1.02	1.25	0.95	1.69	2.32	0.92	1.15	
BOD5														
INFLUENT (MG/L)	64.0	50.0	100.0	70.0	132.0	430.0	98.0	540.0	75.0	68.0	28.0	56.0	142.6	
EFFLUENT (MG/L)	52.0	55.0	15.0	55.0	57.0	70.0	50.0	134.0	18.0	35.0	20.0	43.0	50.3	
LOADING (KG/D)	32.76	37.95	15.30	84.15	55.29	55.30	51.00	167.50	17.10	59.15	46.40	39.56	57.85	
PERCENT REMOVAL	19	ND	85	21	57	84	49	75	76	49	29	23	65	
PERCENT REMOVAL LIMITS													30	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	104.0	102.0	60.0	62.0	171.0	782.0	105.0	1,300.0	193.0	121.0	51.0	66.0	259.8	
EFFLUENT (MG/L)	34.0	50.0	23.0	27.0	33.0	64.0	40.0	91.0	43.0	54.0	33.0	40.0	44.3	
LOADING (KG/D)	21.42	34.50	23.46	41.31	32.01	50.56	40.80	113.75	40.85	91.26	76.56	36.80	50.95	
PERCENT REMOVAL	67	51	62	56	81	92	62	93	78	55	35	39	83	
PERCENT REMOVAL LIMITS													50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.1	5.0	4.7	4.2	4.3	10.7	4.3	10.0	4.6	4.4	2.3	2.6	5.2	
EFFLUENT (MG/L)	3.8	3.9	2.5	3.5	2.8	4.7	3.1	4.2	2.3	2.8	1.9	3.2	3.2	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	2.39	2.69	2.55	5.35	2.71	3.71	3.16	5.25	2.18	4.73	4.40	2.94	3.68	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30%	YES
SS	50%	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PEMBROKE
PLANT : PEMBROKE WPCP
WORKS NUMBER : 120000630
TREATMENT : PRIMARY
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 18.18 (1000 M3)

REGION : SOUTHEAST
DISTRICT : RENFREW
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : OTTAWA RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 17,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	12.90	12.55	12.72	13.24	12.88	12.37	12.43	12.60	13.32	13.56	13.27	13.33	12.93	
BOD5														
INFLUENT (MG/L)	106.7	112.0	155.0	113.0	149.0	120.0	121.0	117.0	115.0	94.0	102.0	95.0	116.6	
EFFLUENT (MG/L)	31.7	19.8	32.5	25.0	32.0	16.7	21.7	14.8	21.3	16.6	23.0	22.8	23.2	
LOADING (KG/D)	408.93	248.49	413.40	331.00	412.16	206.57	269.73	186.48	283.71	225.09	305.21	303.92	299.98	
PERCENT REMOVAL	70	82	79	78	79	86	82	87	81	82	77	76	80	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	97.6	122.0	155.0	124.0	114.0	95.0	93.0	96.0	85.0	93.0	82.0	90.0	103.9	
EFFLUENT (MG/L)	12.2	15.2	16.0	17.8	15.1	12.4	11.8	12.5	10.8	12.6	11.2	12.0	13.3	
LOADING (KG/D)	157.38	190.76	203.52	235.67	194.48	153.38	146.67	157.50	143.85	170.85	148.62	159.96	171.97	
PERCENT REMOVAL	88	88	90	86	87	87	87	87	87	86	86	87	87	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.4	5.1	4.6	3.4	3.2	3.3	4.6	3.1	3.3	3.5	3.6	4.4	3.9	
EFFLUENT (MG/L)	0.8	0.8	0.7	0.7	0.8	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	10.32	10.04	8.90	9.26	10.30	7.42	7.45	7.56	7.99	9.49	9.28	9.33	9.05	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	50%	YES
SS	70%	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PERTH
PLANT : PERTH LAGOON
WORKS NUMBER : 1200J0881
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 5.91 (1000 M3)

REGION : SOUTHEAST
DISTRICT : LANARK
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : TAY RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 5,648

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	4.36	9.38	8.96	9.56	4.49	2.98	4.38	4.66	5.53	8.15	4.79	6.11	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	92.0	ND	80.0	68.0	195.0	125.0	100.0	ND	46.0	46.0	42.0	140.0	93.4	
EFFLUENT (MG/L)	12.0	ND	35.0	13.0	1.6	25.0	36.0	ND	1.4	6.0	14.0	5.0	14.9	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	328.30	116.48	15.29	112.25	107.28	ND	6.52	33.18	114.10	23.95	91.04	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	188.0	64.0	90.0	56.0	261.0	84.0	71.0	118.0	72.0	60.0	79.0	125.0	105.7	
EFFLUENT (MG/L)	26.0	20.0	30.0	14.0	1.7	22.0	20.0	12.0	3.0	11.0	11.0	8.0	14.9	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	87.20	281.40	125.44	16.25	98.78	59.60	52.56	13.98	60.83	89.65	38.32	91.04	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.4	2.4	2.8	2.4	5.0	2.5	7.0	4.0	2.4	1.7	1.8	3.9	3.2	
EFFLUENT (MG/L)	0.7	0.6	1.0	0.3	0.3	0.5	0.2	0.3	0.7	0.5	0.2	0.5	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	2.61	9.38	2.68	2.86	2.24	0.59	1.31	3.26	2.76	1.63	2.39	3.06	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
M - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PETAWAWA
PLANT : PETAWAWA WPCP
WORKS NUMBER : 120000587
TREATMENT : PRIMARY
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 4.54 (1000 M3)

REGION : SOUTHEAST
DISTRICT : RENFREW
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : OTTAWA RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 9,800

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	4.43	4.04	4.61	5.23	5.01	5.07	5.06	6.16	5.31	4.88	4.73	3.74	4.86	
BOD5														
INFLUENT (MG/L)	149.0	106.0	113.0	93.0	155.0	134.0	153.0	183.0	188.0	146.0	295.0	160.0	156.3	
EFFLUENT (MG/L)	43.0	42.0	28.0	39.0	27.7	42.0	35.0	36.0	32.0	40.0	41.0	24.1	35.8	
LOADING (KG/D)	190.49	169.68	129.08	203.97	138.77	212.94	177.10	221.76	169.92	195.20	193.93	90.13	173.99	
PERCENT REMOVAL	71	60	75	58	82	69	77	80	83	73	86	85	77	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	152.0	192.0	161.0	124.0	172.0	139.0	134.0	172.0	165.0	156.0	140.0	165.0	156.0	
EFFLUENT (MG/L)	14.2	14.0	10.6	15.0	22.3	16.1	15.5	10.2	22.1	9.9	17.0	11.4	14.9	
LOADING (KG/D)	62.90	56.56	48.86	78.45	111.72	81.62	78.43	62.83	117.35	48.31	80.41	42.63	72.41	
PERCENT REMOVAL	91	93	93	88	87	88	88	94	87	94	88	93	90	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.9	5.5	5.6	5.2	5.7	5.4	4.2	4.5	5.6	6.2	6.2	5.8	5.4	
EFFLUENT (MG/L)	0.6	0.6	0.4	0.5	0.8	0.6	0.3	0.7	0.4	0.4	0.4	0.5	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	2.65	2.42	1.84	2.61	4.00	3.04	1.51	4.31	2.12	1.95	1.89	1.87	2.43	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	50%	YES
SS	70%	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED	1988/08		

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PICTON
PLANT : PICTON WPCP
WORKS NUMBER : 120000667
TREATMENT : CONTACT STABILIZATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 4.54 (1000 M3)

REGION : SOUTHEAST
DISTRICT : PRINCE EDWARD
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : PICTON BAY
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 4,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.48	2.95	3.74	3.48	2.75	2.50	2.34	2.30	2.32	2.68	3.03	2.87	2.79	
BOD														
INFLUENT (MG/L)	28.0	54.0	115.0	40.0	90.0	375.0	90.0	35.0	44.0	195.0	215.0	138.0	118.3	
EFFLUENT (MG/L)	18.0	12.0	15.0	15.0	17.0	13.0	7.0	6.0	6.2	4.8	20.0	10.5	12.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	44.64	35.40	56.10	52.20	46.75	32.50	16.38	13.80	14.38	12.86	60.60	30.13	33.48	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	51.0	112.0	65.0	35.0	98.0	852.0	93.0	32.0	81.0	1,540.0	235.0	175.0	280.8	
EFFLUENT (MG/L)	24.0	17.0	21.0	15.0	22.0	12.0	92.0	14.0	9.0	10.0	18.0	3.5	21.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	59.52	50.15	78.54	52.20	60.50	30.00	215.28	32.20	20.88	26.80	54.54	10.04	59.99	
TOTAL PHOSPHORUS														
INFLUENT (MG/L)	2.5	4.4	4.4	2.5	3.1	34.0	4.8	2.7	4.2	36.9	7.9	5.7	9.4	
EFFLUENT (MG/L)	1.0	0.7	1.0	0.6	0.5	1.2*	0.7	0.8	0.7	1.8*	0.8	0.4	0.9	2
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	2.48	2.06	3.74	2.08	1.37	3.00	1.63	1.84	1.62	4.82	2.42	1.14	2.51	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - SAMPLING PROGRAM BEING MODIFIED	1988/08		1989/12/31
OPERATIONAL/PROCESS - MONITORING PROCEDURES BEING UPGRADED	1988/08		1989/12/31

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PITTSBURG
PLANT : CANA WPCP
WORKS NUMBER : 110001505
TREATMENT : EXTENDED AERATION

DESIGN CAPACITY : 0.09 (1000 M3)

REGION : SOUTHEAST
DISTRICT : FRONTENAC
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : CATARAQUI RIVER
MINOR BASIN : ST. LAWRENCE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 108

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.07	0.07	0.10	0.09	0.06	0.03	0.02	0.02	0.02	0.04	0.07	0.05	0.05	
BOD5														
INFLUENT (MG/L)	59.0	ND	33.0	100.0	113.0	125.0	168.0	207.0	175.0	86.0	80.0	87.0	112.1	
EFFLUENT (MG/L)	4.8	4.4	5.0	7.5	7.7	3.1	3.2	2.0	2.0	1.9	2.1	2.7	3.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.33	0.30	0.50	0.67	0.46	0.09	0.06	0.04	0.04	0.07	0.14	0.13	0.20	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	117.0	ND	33.0	60.0	126.0	119.0	165.0	209.0	226.0	124.0	74.0	73.0	120.5	
EFFLUENT (MG/L)	403.3	29.0	23.6	19.5	22.1	16.5	13.3	11.2	22.7	18.9	17.8	16.6	51.2M	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	28.23	2.03	2.36	1.75	1.32	0.49	0.26	0.22	0.45	0.75	1.24	0.83	2.56	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.1	ND	1.6	3.0	3.6	5.0	5.5	6.7	7.9	5.2	2.9	4.7	4.5	
EFFLUENT (MG/L)	5.7	2.2	2.0	1.7	2.3	3.2	3.3	4.0	3.2	3.6	2.3	2.4	3.0	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.39	0.15	0.20	0.15	0.13	0.09	0.06	0.08	0.06	0.14	0.16	0.12	0.15	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	NO
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
M - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW	1989/03	1989/07	1989

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PLANTAGENET
PLANT : PLANTAGENET LAGOON
WORKS NUMBER : 110001621
TREATMENT : CONVENTIONAL LAGOON SEASONAL
:
:
DESIGN CAPACITY : 0.59 (1000 M3)

REGION : SOUTHEAST
DISTRICT : PRESCOTT AND RUSSELL
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : SOUTH NATION RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 876

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.45	0.46	0.61	0.75	0.57	0.51	0.50	0.46	0.46	0.62	0.72	0.45	0.55	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	56.0	116.0	29.0	85.0	19.0	131.0	71.0	127.0	123.0	67.0	70.0	ND	81.3	
EFFLUENT (MG/L)	ND	ND	ND	11.0	5.0	ND	ND	ND	ND	ND	1.4	14.0	7.9	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	8.25	2.85	ND	ND	ND	ND	ND	1.00	6.30	4.35	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	112.0	248.0	160.0	187.0	83.0	203.0	109.0	66.0	83.0	142.0	136.0	139.0	139.0	
EFFLUENT (MG/L)	ND	ND	ND	28.0	31.0	ND	ND	ND	ND	ND	7.5	13.0	19.9	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	21.00	17.67	ND	ND	ND	ND	ND	5.40	5.85	10.95	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.4	4.6	2.8	7.4	3.7	4.7	5.6	5.9	4.4	1.8	3.7	4.1	4.4	
EFFLUENT (MG/L)	ND	ND	ND	1.5	0.7	ND	ND	ND	ND	ND	0.6	0.3	0.8	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	1.12	0.39	ND	ND	ND	ND	ND	0.43	0.13	0.44	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PRESCOTT
PLANT : EDWARDSBURGH WPCP
WORKS NUMBER : 110001122
TREATMENT : PRIMARY
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 5.68 (1000 M3)

REGION : SOUTHEAST
DISTRICT : LEEDS AND GRENVILLE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : ST. LAWRENCE RIVER
MINOR BASIN : ST. LAWRENCE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 4,595

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.68	4.40	5.49	5.24	4.56	3.81	3.74	3.92	4.84	5.28	6.28	4.00	4.60	
BOD5														
INFLUENT (MG/L)	41.0	38.0	18.0	ND	67.0	65.0	60.0	50.0	33.0	23.0	44.0	46.0	44.1	
EFFLUENT (MG/L)	15.0	19.5	11.0	ND	24.5	25.0	11.0	10.0	24.0	16.0	17.0	13.5	17.0	
LOADING (KG/D)	55.20	85.80	60.39	ND	111.72	95.25	41.14	39.20	116.16	84.48	106.76	54.00	78.20	
PERCENT REMOVAL	63	49	39		63	62	82	80	27	30	61	71	61	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	116.0	124.0	75.0	ND	108.0	106.0	138.0	130.0	92.0	41.0	69.0	100.0	99.9	
EFFLUENT (MG/L)	17.5	41.0	30.0	ND	14.5	14.0	12.0	17.0	26.5	16.5	12.5	13.0	19.5	
LOADING (KG/D)	64.40	180.40	164.70	ND	66.12	53.34	44.88	66.64	128.26	87.12	78.50	52.00	89.70	
PERCENT REMOVAL	85	67	60		87	87	91	87	71	60	82	87	80	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.2	2.5	1.7	1.9	1.8	2.4	3.6	2.7	2.3	1.2	1.4	3.2	2.3	
EFFLUENT (MG/L)	0.6	0.8	0.7	0.7	0.3	0.4	0.4	0.4	0.7	0.3	0.2	0.5	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	2.20	3.52	3.84	3.66	1.36	1.52	1.49	1.56	3.38	1.58	1.25	2.00	2.30	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	50%	YES
SS	70%	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : RENFREW
PLANT : RENFREW WPCP
WORKS NUMBER : 120000603
TREATMENT : PRIMARY
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 8.63 (1000 M3)

REGION : SOUTHEAST
DISTRICT : RENFREW
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : BONNECHERE RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 8,200

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	8.33	8.31	9.48	12.35	9.83	8.56	8.46	10.19	8.52	8.94	9.51	7.62	9.18	
BOD5														
INFLUENT (MG/L)	62.0	60.0	55.0	20.0	ND	26.0	60.0	68.0	42.0	34.0	54.0	ND	48.1	
EFFLUENT (MG/L)	12.0	10.0	16.0	5.0	ND	3.2	7.0	9.0	7.0	4.8	14.0	ND	8.8	
LOADING (KG/D)	99.96	83.10	151.68	61.75	ND	27.39	59.22	91.71	59.64	42.91	133.14	ND	80.78	
PERCENT REMOVAL	81	83	71	75		88	88	87	83	86	74		82	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	128.0	150.0	110.0	55.0	120.0	83.0	78.0	69.0	96.0	81.0	80.0	ND	95.5	
EFFLUENT (MG/L)	19.0	6.0	10.0	13.0	22.0	1.6	10.0	27.0	11.5	9.0	7.0	ND	12.4	
LOADING (KG/D)	158.27	49.86	94.80	160.55	216.26	13.69	84.60	275.13	97.98	80.46	66.57	ND	113.83	
PERCENT REMOVAL	85	96	91	76	82	98	87	61	88	89	91		87	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.2	4.8	3.5	1.9	1.6	2.0	2.3	2.9	2.9	3.1	2.6	ND	2.9	
EFFLUENT (MG/L)	0.6	0.2	0.5	0.5	0.8	0.2	0.4	0.5	0.3	0.3	0.2	ND	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	4.99	1.66	4.74	6.17	7.86	1.71	3.38	5.09	2.55	2.68	1.90	ND	3.67	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	50%	YES
SS	70%	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ROCKLAND
PLANT : ROCKLAND LAGOON
WORKS NUMBER : 110001159
TREATMENT : AERATED CELL PLUS LAGOON
: CONTINUOUS DISCHARGE
:
DESIGN CAPACITY : 3.34 (1000 M3)

REGION : SOUTHEAST
DISTRICT : PRESCOTT AND RUSSELL
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : OTTAWA RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 5,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.89	1.93	2.46	3.31	2.31	1.97	1.93	2.37	2.10	2.39	2.72	2.10	2.29	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	73.56	62.86	ND	ND	ND	68.21	
BOD5														
INFLUENT (MG/L)	102.0	162.0	131.0	61.0	158.0	65.0	72.0	147.0	145.0	2.0	59.0	ND	100.4	
EFFLUENT (MG/L)	14.8	11.0	14.0	11.0	11.0	7.3	7.0	14.0	7.0	11.5	6.7	ND	10.5	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	27.97	21.23	34.44	36.41	25.41	14.38	13.51	33.18	14.70	27.48	18.22	ND	24.05	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	230.0	357.0	213.0	101.0	341.0	109.0	123.0	411.0	134.0	129.0	107.0	385.0	220.0	
EFFLUENT (MG/L)	9.3	25.0	27.0	21.0	19.0	20.0	17.0	19.0	12.0	7.5	10.5	22.0	17.4	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	17.57	48.25	66.42	69.51	43.89	39.40	32.81	45.03	25.20	17.92	28.56	46.20	39.85	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.8	6.3	5.5	5.9	6.7	5.2	5.6	5.7	4.4	4.9	5.9	4.2	5.6	
EFFLUENT (MG/L)	2.6	3.5	3.6	2.6	2.8	2.7	3.5	5.0	4.5	1.5	2.0	2.6	3.1	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	4.91	6.75	8.85	8.60	6.46	5.31	6.75	11.85	9.45	3.58	5.44	5.46	7.10	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : RUSSELL
PLANT : EMBRUN P.V.LAGOON
WORKS NUMBER : 120002004
TREATMENT : CONVENTIONAL LAGOON SEASONAL

DESIGN CAPACITY : 18.18 (1000 M3)

REGION : SOUTHEAST
DISTRICT : PRESCOTT AND RUSSELL
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE :
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.70	0.93	0.64	0.99	0.83	0.76	ND	ND	0.83	0.84	0.98	ND	0.83	
LAGOON DISCHARGE	ND	ND	268.99	26.90	ND	ND	ND	ND	ND	ND	ND	ND	147.95	
BOD5														
INFLUENT (MG/L)	135.0	135.0	142.0	ND	98.0	350.0	ND	265.0	85.0	102.0	140.0	ND	161.3	
EFFLUENT (MG/L)	ND	ND	11.0	8.0	ND	ND	ND	ND	ND	ND	ND	ND	9.5	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	7.04	7.92	ND	ND	ND	ND	ND	ND	ND	ND	7.89	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	35.2	105.0	106.0	ND	93.0	328.0	ND	572.0	118.0	126.0	110.0	ND	177.0	
EFFLUENT (MG/L)	ND	ND	8.3	9.0	ND	ND	ND	ND	ND	ND	ND	ND	8.7	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	5.31	8.91	ND	ND	ND	ND	ND	ND	ND	ND	7.22	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	9.6	8.7	8.5	ND	7.2	10.5	ND	10.6	8.3	5.7	7.0	ND	8.5	
EFFLUENT (MG/L)	ND	ND	1.6	1.5	ND	ND	ND	ND	ND	ND	ND	ND	1.6	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	1.02	1.48	ND	ND	ND	ND	ND	ND	ND	ND	1.33	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : RUSSELL
PLANT : RUSSELL LAGOON
WORKS NUMBER : 110001514
TREATMENT : CONVENTIONAL LAGOON ANNUAL
:
:
DESIGN CAPACITY : 1.00 (1000 M3)

REGION : SOUTHEAST
DISTRICT : PRESCOTT AND RUSSELL
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : CASTOR RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,400

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.32	0.31	0.33	0.36	0.30	0.26	0.24	0.25	0.27	0.29	0.33	0.27	0.29	
LAGOON DISCHARGE	ND	ND	ND	95.37	ND	ND	ND	ND	ND	ND	ND	ND	95.37	
BOD5														
INFLUENT (MG/L)	101.0	115.0	142.0	135.0	154.0	260.0	180.0	163.0	97.0	85.0	90.0	73.0	132.9	
EFFLUENT (MG/L)	ND	ND	ND	4.8	ND	ND	ND	ND	ND	ND	ND	ND	4.8	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	1.72	ND	ND	ND	ND	ND	ND	ND	ND	1.39	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	155.0	204.0	183.0	126.0	246.0	206.0	102.0	360.0	94.0	86.0	142.0	59.0	163.6	
EFFLUENT (MG/L)	ND	ND	ND	41.0	ND	ND	ND	ND	ND	ND	ND	ND	41.0*	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	14.76	ND	ND	ND	ND	ND	ND	ND	ND	11.89	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.8	7.6	9.1	6.2	10.0	11.8	7.8	9.0	8.7	8.6	8.2	8.4	8.6	
EFFLUENT (MG/L)	ND	ND	ND	2.3	ND	ND	ND	ND	ND	ND	ND	ND	2.3	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	0.82	ND	ND	ND	ND	ND	ND	ND	ND	0.67	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	NO
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED	1989/04	1989/04	1989

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : SIDNEY
PLANT : BATAWA WPCP
WORKS NUMBER : 110000668
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 0.56 (1000 M3)

REGION : SOUTHEAST
DISTRICT : HASTINGS
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : TRENT RIVER
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 300

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.03	1.10	1.22	0.81	0.65	0.53	0.47	0.44	0.48	0.71	0.94	0.76	0.76	
BOD5														
INFLUENT (MG/L)	59.0	68.0	62.0	72.0	79.0	74.0	90.0	66.0	102.0	88.0	41.0	86.0	73.9	
EFFLUENT (MG/L)	4.0	7.5	6.8	6.0	3.6	4.0	4.5	2.2	4.2	4.7	1.9	6.0	4.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	4.12	8.25	8.29	4.86	2.34	2.12	2.11	0.96	2.01	3.33	1.78	4.56	3.50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	32.0	32.0	37.0	54.0	56.0	79.0	49.0	54.0	89.0	48.0	51.0	68.0	54.1	
EFFLUENT (MG/L)	9.3	12.0	13.8	16.0	15.0	8.3	6.9	6.0	7.4	11.4	9.4	12.6	10.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	9.57	13.20	16.83	12.96	9.75	4.39	3.24	2.64	3.55	8.09	8.83	9.57	8.13	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.5	2.4	2.2	2.0	2.5	2.9	3.0	7.1	3.9	3.6	2.9	4.1	3.3	
EFFLUENT (MG/L)	0.7	0.9	1.0	0.6	0.7	0.5	0.4	0.6	0.6	0.5	0.5	0.6	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.72	0.99	1.22	0.48	0.45	0.26	0.18	0.26	0.28	0.35	0.47	0.45	0.46	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM - SEWAGE UPGRADE UNDERWAY	1987		1990

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : SMITHS FALLS
PLANT : SMITHS FALLS WPCP
WORKS NUMBER : 120000890
TREATMENT : PRIMARY
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 11.36 (1000 M3)

REGION : SOUTHEAST
DISTRICT : LANARK
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : RIDEAU RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 11,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	10.19	11.47	14.49	14.27	12.51	11.35	10.14	10.54	9.79	13.13	14.38	9.48	11.81	
BOD5														
INFLUENT (MG/L)	46.0	40.0	68.0	108.0	136.0	102.0	75.0	240.0	250.0	46.0	62.0	89.0	105.2	
EFFLUENT (MG/L)	21.5	18.5	15.6	42.5	8.0	45.0	20.5	25.0	33.0	24.5	34.0	34.0	26.8	
LOADING (KG/D)	219.08	212.19	226.04	606.47	100.08	510.75	207.87	263.50	323.07	321.68	488.92	322.32	316.51	
PERCENT REMOVAL	53	54	77	61	94	56	73	90	87	47	45	62	75	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	82.0	122.0	115.0	125.0	103.0	96.0	120.0	153.0	925.0	211.0	52.0	91.0	182.9	
EFFLUENT (MG/L)	27.0	18.5	15.6	26.5	15.0	27.0	31.0	35.0	47.0	37.0	51.0	35.5	30.5	
LOADING (KG/D)	275.13	212.19	226.04	378.15	187.65	306.45	314.34	368.90	460.13	485.81	733.38	336.54	360.21	
PERCENT REMOVAL	67	85	86	79	85	72	74	77	95	82	02	61	83	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.8	4.1	5.0	4.7	3.1	3.1	4.0	2.7	2.9	5.3	2.8	3.7	3.7	
EFFLUENT (MG/L)	1.3*	2.9*	0.9	1.9*	0.9	0.8	1.4*	1.0	1.9*	1.2*	1.9*	1.3*	1.5	8
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	13.24	33.26	13.04	27.11	11.25	9.08	14.19	10.54	18.60	15.75	27.32	12.32	17.72	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	50%	YES
SS	70%	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM - INFILTRATION PROBLEMS BEING CORRECTED	1988/01	1991/01	1992
FACILTY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED	1989/01	1990/01	1992

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ST ISIDORE DE PRESCOTT
PLANT : ST.ISIDORE LAGOON
WORKS NUMBER : 110002210
TREATMENT : CONVENTIONAL LAGOON ANNUAL
:
:
DESIGN CAPACITY : 0.65 (1000 M3)

REGION : SOUTHEAST
DISTRICT : PRESCOTT AND RUSSELL
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : SCOTCH RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 772

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.24	0.25	0.28	0.31	0.27	0.23	0.23	0.25	0.24	0.28	0.35	0.25	0.27	
LAGOON DISCHARGE	ND	ND	ND	105.60	ND	ND	ND	ND	ND	ND	ND	ND	105.60	
BOD5														
INFLUENT (MG/L)	167.0	185.0	147.0	305.0	165.0	240.0	235.0	185.0	168.0	132.0	157.0	131.0	184.8	
EFFLUENT (MG/L)	ND	ND	ND	12.2	ND	ND	ND	ND	ND	ND	ND	ND	12.2	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	3.78	ND	ND	ND	ND	ND	ND	ND	ND	3.29	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	134.0	199.0	125.0	239.0	133.0	187.0	173.0	89.0	155.0	173.0	213.0	112.0	161.0	
EFFLUENT (MG/L)	ND	ND	ND	15.5	ND	ND	ND	ND	ND	ND	ND	ND	15.5	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	4.80	ND	ND	ND	ND	ND	ND	ND	ND	4.19	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	9.1	9.0	10.3	10.3	14.2	12.4	10.9	7.4	8.2	7.4	8.4	8.7	9.7	
EFFLUENT (MG/L)	ND	ND	ND	1.9	ND	ND	ND	ND	ND	ND	ND	ND	1.9	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	0.58	ND	ND	ND	ND	ND	ND	ND	ND	0.51	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : STIRLING
PLANT : STIRLING LAGOON
WORKS NUMBER : 110000686
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 1.13 (1000 M3)

REGION : SOUTHEAST
DISTRICT : HASTINGS
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : RAWDON CREEK
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,700

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.05	0.75	1.02	1.15	0.95	0.88	0.82	0.68	0.99	0.77	0.73	0.81	0.88	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	ND	76.0	ND	98.0	435.0	109.0	ND	83.0	43.0	300.0	269.0	176.6	
EFFLUENT (MG/L)	ND	ND	ND	25.0	7.0	ND	ND	ND	ND	5.2	ND	ND	12.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	28.75	6.65	ND	ND	ND	ND	4.00	ND	ND	10.91	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	143.0	ND	109.0	229.0	68.0	ND	60.0	70.0	192.0	180.0	131.4	
EFFLUENT (MG/L)	ND	ND	ND	145.0	19.0	ND	ND	ND	ND	20.0	ND	ND	61.3*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	166.75	18.05	ND	ND	ND	ND	15.40	ND	ND	53.94	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	6.1	ND	4.2	8.9	8.6	ND	5.2	3.1	11.3	8.4	7.0	
EFFLUENT (MG/L)	ND	ND	ND	1.2*	0.2	ND	ND	ND	ND	0.5	ND	ND	0.6	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	1.38	0.19	ND	ND	ND	ND	0.38	ND	ND	0.53	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	NO
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - SAMPLING PROGRAM BEING MODIFIED	1989/05	1988/05	1989/05
OPERATIONAL/PROCESS - MONITORING PROCEDURES BEING UPGRADED	1989	1989/04	1989/04

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : TRENTON
PLANT : TRENTON WPCP
WORKS NUMBER : 110000775
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 15.91 (1000 M3)

REGION : SOUTHEAST
DISTRICT : HASTINGS
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BAY OF QUINTE
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 15,346

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	10.81	10.97	12.75	12.56	9.94	9.63	8.65	9.59	9.31	10.50	11.93	10.20	10.57	
BOD5														
INFLUENT (MG/L)	170.0	277.0	226.0	184.0	236.0	153.0	255.0	216.0	317.0	319.0	269.0	225.0	237.3	
EFFLUENT (MG/L)	9.8	14.0	18.0	11.0	12.0	7.5	8.1	5.7	19.0	10.0	10.5	20.0	12.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	105.93	153.58	229.50	138.16	119.28	72.22	70.06	54.66	176.89	105.00	125.26	204.00	127.90	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	140.0	157.0	137.0	126.0	164.0	147.0	149.0	129.0	178.0	178.0	150.0	156.0	150.9	
EFFLUENT (MG/L)	13.0	14.0	15.9	19.8	13.5	14.0	15.3	15.0	26.0	18.0	18.7	18.0	16.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	140.53	153.58	202.72	248.68	134.19	134.82	132.34	143.85	242.06	189.00	223.09	183.60	177.58	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.0	7.4	6.8	5.6	5.8	5.6	4.9	6.5	7.3	6.1	7.1	7.8	6.4	
EFFLUENT (MG/L)	0.5	0.8	0.8	0.6	0.5	0.3	0.6	0.8	1.2*	0.7	0.7	0.7	0.7	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	5.40	8.77	10.20	7.53	4.97	2.88	5.19	7.67	11.17	7.35	8.35	7.14	7.40	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - MINOR PROCESS/OPERATIONAL MODIFICATION			

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : TWEED
PLANT : TWEED LAGOON
WORKS NUMBER : 120000952
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 1.20 (1000 M3)

REGION : SOUTHEAST
DISTRICT : HASTINGS
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : MOIRA RIVER
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,607

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.40	1.40	1.80	2.90	1.40	1.10	0.80	0.80	0.70	ND	1.02	2.02	1.39	
LAGOON DISCHARGE	ND	ND	69.20	81.60	18.20	ND	ND	ND	ND	ND	23.00	ND	48.00	
BOD5														
INFLUENT (MG/L)	103.0	141.0	52.0	76.0	ND	ND	107.0	120.0	84.0	ND	102.0	109.0	99.3	
EFFLUENT (MG/L)	ND	ND	16.0	12.5	ND	ND	ND	ND	ND	ND	ND	ND	14.3	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	28.80	36.25	ND	ND	ND	ND	ND	ND	ND	ND	19.88	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	98.0	88.0	103.0	63.0	ND	ND	107.0	140.0	112.0	ND	475.0	109.0	143.9	
EFFLUENT (MG/L)	ND	ND	17.0	14.0	ND	ND	ND	ND	ND	ND	ND	ND	15.5	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	30.60	40.60	ND	ND	ND	ND	ND	ND	ND	ND	21.55	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.1	3.1	3.3	2.4	ND	ND	5.0	5.3	6.0	ND	4.8	5.1	4.3	
EFFLUENT (MG/L)	ND	ND	1.7*	0.7	ND	ND	ND	ND	ND	ND	ND	ND	1.2	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	3.06	2.03	ND	ND	ND	ND	ND	ND	ND	ND	1.67	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - SAMPLING PROGRAM BEING MODIFIED	1988		

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : VANKLEEK HILL
PLANT : VANKLEEK HILL LAGOON
WORKS NUMBER : 110001658
TREATMENT : CONVENTIONAL LAGOON SEASONAL
:
:
DESIGN CAPACITY : 0.90 (1000 M3)

REGION : SOUTHEAST
DISTRICT : PRESCOTT AND RUSSELL
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : LITTLE RIDEAU CREEK
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,711

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.81	0.99	0.98	1.21	0.91	0.70	0.85	0.73	0.72	0.83	1.26	0.84	0.90	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	40.18	ND	ND	ND	25.79	58.73	58.73	45.86	
BOD5														
INFLUENT (MG/L)	16.0	50.0	17.0	27.0	65.0	76.0	75.0	76.0	70.0	64.0	ND	42.0	52.5	
EFFLUENT (MG/L)	ND	ND	ND	10.0	2.0	9.0	ND	ND	ND	ND	8.0	ND	7.3	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	12.10	1.82	6.30	ND	ND	ND	ND	10.08	ND	6.57	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	41.0	47.0	27.0	42.0	107.0	54.0	76.0	36.0	34.0	56.0	ND	43.0	51.2	
EFFLUENT (MG/L)	ND	ND	ND	14.0	8.0	2.0	ND	ND	ND	ND	10.5	ND	8.6	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	16.94	7.28	1.40	ND	ND	ND	ND	13.23	ND	7.74	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.9	4.3	3.5	4.5	3.3	3.8	4.1	3.8	4.4	4.4	3.9	3.9	4.0	
EFFLUENT (MG/L)	ND	ND	ND	3.4	1.8	1.0	ND	ND	ND	ND	2.6	ND	2.2	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	4.11	1.63	0.70	ND	ND	ND	ND	3.27	ND	1.98	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WELLINGTON
PLANT : WELLINGTON WPCP
WORKS NUMBER : 120003165
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 1.50 (1000 M3)

REGION : SOUTHEAST
DISTRICT : PRINCE EDWARD
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE ONTARIO
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,077

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.47	0.44	0.89	0.87	0.41	0.37	0.35	0.32	0.31	0.33	0.49	0.39	0.47	
BOD5														
INFLUENT (MG/L)	100.0	108.0	55.0	100.0	125.0	200.0	125.0	155.0	72.0	120.0	160.0	88.0	117.3	
EFFLUENT (MG/L)	3.9	12.5	6.0	4.0	2.0	1.0	2.0	2.0	4.0	2.0	2.0	1.0	3.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.83	5.50	5.34	3.48	0.82	0.37	0.70	0.64	1.24	0.66	0.98	0.39	1.65	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	148.0	354.0	115.0	77.0	105.0	115.0	89.0	111.0	113.0	187.0	178.0	92.0	140.3	
EFFLUENT (MG/L)	10.1	15.3	15.0	10.0	14.0	9.0	6.0	7.0	2.0	13.0	6.0	9.0	9.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	4.74	6.73	13.35	8.70	5.74	3.33	2.10	2.24	0.62	4.29	2.94	3.51	4.56	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.3	9.9	7.0	5.7	6.7	6.0	7.7	8.0	6.8	9.6	9.3	6.0	7.3	
EFFLUENT (MG/L)	0.4	0.9	0.9	1.2*	0.8	0.7	1.0	0.9	0.8	0.7	1.2*	0.9	0.9	2
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.18	0.39	0.80	1.04	0.32	0.25	0.35	0.28	0.24	0.23	0.58	0.35	0.42	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - OPERATIONAL PROCEDURES BEING UPGRADED	1989/05	1989/05	1989/12
OPERATIONAL/PROCESS - MONITORING PROCEDURES BEING UPGRADED	1989/05	1989/05	1989/12

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WESTPORT
PLANT : WESTPORT LAGOON
WORKS NUMBER : 110001550
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 0.24 (1000 M3)

REGION : SOUTHEAST
DISTRICT : LEEDS AND GRENVILLE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : UPPER RIDEAU LAKE
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 566

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.31	0.30	0.33	0.35	0.35	0.33	0.28	0.25	0.22	0.25	0.31	ND	0.30	
LAGOON DISCHARGE	ND	ND	ND	53.13	ND	ND	ND	ND	ND	ND	ND	ND	53.13	
BOD5														
INFLUENT (MG/L)	100.0	120.0	80.0	315.0	125.0	118.0	185.0	162.0	155.0	116.0	ND	ND	147.6	
EFFLUENT (MG/L)	ND	ND	ND	22.0	19.5	ND	ND	ND	ND	ND	14.5	ND	18.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	7.70	6.82	ND	ND	ND	ND	ND	4.49	ND	5.61	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	188.0	121.0	106.0	98.0	84.0	131.0	124.0	157.0	144.0	194.0	ND	ND	134.7	
EFFLUENT (MG/L)	ND	ND	ND	20.0	22.5	ND	ND	ND	ND	ND	19.4	ND	20.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	7.00	7.87	ND	ND	ND	ND	ND	6.01	ND	6.18	
TOTAL PHOSPHORUS														
INFLUENT (MG/L)	9.5	7.0	5.3	6.9	6.0	5.9	5.6	8.1	7.3	6.5	ND	ND	6.8	
EFFLUENT (MG/L)	ND	ND	ND	1.7*	0.5	ND	ND	ND	ND	ND	0.9	ND	1.0	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	0.59	0.17	ND	ND	ND	ND	ND	0.27	ND	0.30	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED			1989

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WILLIAMSBURG TWP
PLANT : WILLIAMSBURG PV LAGOON
WORKS NUMBER : 120002013
TREATMENT : CONVENTIONAL LAGOON ANNUAL
:
:
DESIGN CAPACITY : 1.22 (1000 M3)

REGION : SOUTHEAST
DISTRICT : STORMONT, DUNDAS AND GLENGARRY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : MCMARTIN DRAIN
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 300

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.68	0.44	0.56	
LAGOON DISCHARGE	ND	ND	ND	51.33	ND	ND	ND	ND	ND	ND	ND	ND	51.33	
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	52.0	82.0	67.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	68.0	66.0	67.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.7	3.4	4.1	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	INSUFFICIENT DATA
SS	40.0 MG/L	INSUFFICIENT DATA
TP	NA	INSUFFICIENT DATA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WINCHESTER
PLANT : WINCHESTER LAGOON
WORKS NUMBER : 110001202
TREATMENT : CONVENTIONAL LAGOON SEASONAL
DESIGN CAPACITY : 1.72 (1000 M3)

REGION : SOUTHEAST
DISTRICT : STORMONT, DUNDAS AND GLENGARRY
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : CASTOR RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,200

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.19	1.36	1.40	1.50	1.46	1.29	1.35	1.17	1.02	1.14	1.48	1.09	1.29	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	96.0	109.0	73.0	135.0	198.0	161.0	96.0	44.0	141.0	129.0	73.0	138.0	116.1	
EFFLUENT (MG/L)	ND	ND	ND	16.6	ND	ND	ND	ND	ND	ND	11.0	ND	13.8	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	24.90	ND	ND	ND	ND	ND	ND	16.28	ND	17.80	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	187.0	181.0	120.0	82.0	174.0	104.0	83.0	164.0	127.0	133.0	97.0	179.0	135.9	
EFFLUENT (MG/L)	ND	ND	ND	16.6	ND	ND	ND	ND	ND	ND	23.7	ND	20.2	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	24.90	ND	ND	ND	ND	ND	ND	35.07	ND	26.06	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.9	6.1	ND	5.2	5.3	7.3	5.3	9.0	7.0	6.4	4.9	7.3	6.3	
EFFLUENT (MG/L)	ND	ND	ND	4.3	ND	ND	ND	ND	ND	ND	4.9	ND	4.6	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	6.45	ND	ND	ND	ND	ND	ND	7.25	ND	5.93	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

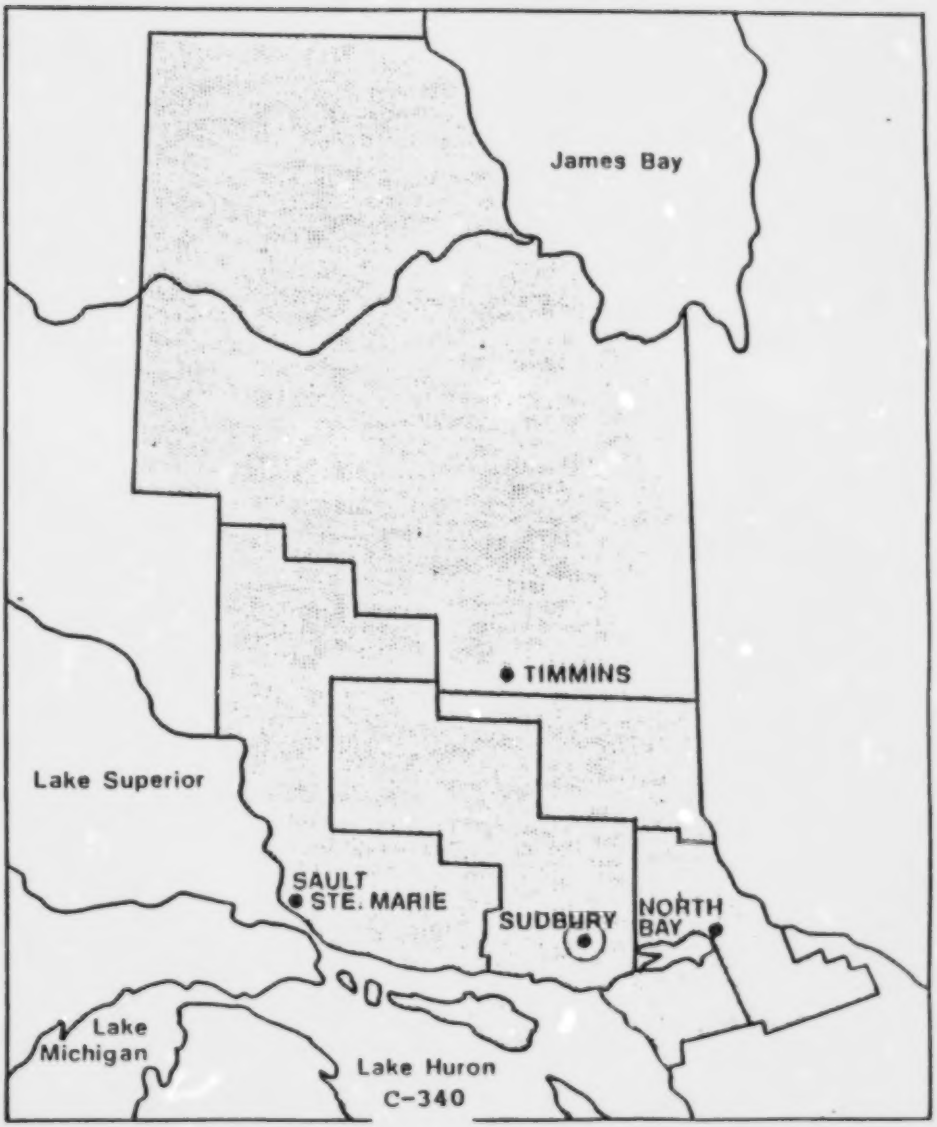
NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

Northeastern Region

5

Ministry of the Environment

Ontario



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Northeastern Region
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Ministry of the Environment
Ontario

REGIONAL OFFICE

Sudbury
199 Larch St.
P3E 5P9
(705) 675-4501

DISTRICT OFFICES

North Bay
1500 Fisher St.
P1B 2H3
(705) 476-1001

Sault Ste. Marie
445 Albert St. East
P6A 2J9
(705) 949-4640

Sudbury
199 Larch St.
P3E 5P9
(705) 675-4501

Timmins
83 Algonquin Blvd. West
P4N 2R4
(705) 268-3222

SUB-OFFICE

Parry Sound
74 Church St.
P2A 1Z1
(705) 746-2139

NORTHEAST SUMMARY - 1988

TREATMENT TYPE	NUMBER			DESIGN CAPACITY (1000M3)		
	MIN	MUN	TOT	MINISTRY	MUNICIPAL	TOTAL
CONVENTIONAL LAGOON ANNUAL	1	0	1	3.00	0.00	3.00
PRIMARY	1	1	2	54.55	34.09	88.64
CONVENTIONAL ACTIVATED SLUDGE	4	4	8	65.69	25.44	91.13
CONTACT STABILIZATION	3	0	3	18.23	0.00	18.23
EXTENDED AERATION	9	9	18	20.43	29.06	49.49
TRICKLING FILTER	0	1	1	0.00	0.91	0.91
HIGH RATE	0	1	1	0.00	68.19	68.19
OXIDATION DITCH	0	1	1	0.00	1.60	1.60
COMMUNAL SEPTIC TANK	0	2	2	0.00	0.72	0.72
AERATED LAGOON	1	0	1	4.54	0.00	4.54
CONVENTIONAL LAGOON CONTINUOUS	3	4	7	1.15	2.58	3.73
CONVENTIONAL LAGOON SEASONAL	23	9	32	14.42	89.43	103.85
AERATED CELL PLUS LAGOON	2	1	3	12.32	0.39	12.71
EXFILTRATION LAGOON	2	2	4	1.68	2.13	3.81
TOTALS	49	35	84	196.03	254.56	450.60

1000M3/D: THOUSANDS OF CUBIC METERS PER DAY
ADF : AVERAGE DAILY FLOW

NORTHEAST SUMMARY - 1988

TREATMENT TYPE	NUMBER			ANNUAL ADF (1000M3)		
	MIN	MUN	TOT	MINISTRY	MUNICIPAL	TOTAL
CONVENTIONAL LAGOON ANNUAL	1	0	1	2.91	0.00	2.91
PRIMARY	1	1	2	34.21	21.41	55.62
CONVENTIONAL ACTIVATED SLUDGE	4	4	8	49.82	20.00	69.82
CONTACT STABILIZATION	3	0	3	16.38	0.00	16.38
EXTENDED AERATION	9	9	18	17.68	26.61	44.29
TRICKLING FILTER	0	1	1	0.00	0.62	0.62
HIGH RATE	0	1	1	0.00	62.10	62.10
OXIDATION DITCH	0	1	1	0.00	1.73	1.73
COMMUNAL SEPTIC TANK	0	2	2	0.00	0.00	0.00
AERATED LAGOON	1	0	1	2.73	0.00	2.73
CONVENTIONAL LAGOON CONTINUOUS	3	4	7	2.05	1.06	3.11
CONVENTIONAL LAGOON SEASONAL	23	9	32	12.49	3.69	16.18
AERATED CELL PLUS LAGOON	2	1	3	7.48	0.30	7.78
EXFILTRATION LAGOON	2	2	4	0.36	4.57	4.93
TOTALS	49	35	84	146.11	142.09	288.20

1000M3/D: THOUSANDS OF CUBIC METERS PER DAY
ADF : AVERAGE DAILY FLOW

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ARMSTRONG
PLANT : EARLTON LAGOON
WORKS NUMBER : 120000042
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS
:
:
DESIGN CAPACITY : 0.36 (1000 M3)

REGION : NORTHEAST
DISTRICT : TIMISKAMING
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : EVANTUREL CREEK
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,452

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	INSUFFICIENT DATA
SS	40.0 MG/L	INSUFFICIENT DATA
TP	NA	INSUFFICIENT DATA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ASSIGINACK
PLANT : MANITOWANING LAGOON
WORKS NUMBER : 110001408
TREATMENT : CONVENTIONAL LAGOON SEASONAL
DESIGN CAPACITY : 0.25 (1000 M3)

REGION : NORTHEAST
DISTRICT : MANITOULIN
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : LAKE HURON
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 440

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.29	0.30	0.38	0.41	0.24	0.20	0.23	0.24	0.20	0.34	0.46	0.25	0.30	
LAGOON DISCHARGE	ND	ND	ND	43.12	ND	ND	ND	ND	ND	15.69	16.37	ND	25.06	
BOD5														
INFLUENT (MG/L)	146.0	82.0	123.0	35.0	18.0	11.0	32.0	54.0	40.0	ND	56.0	40.0	57.9	
EFFLUENT (MG/L)	ND	ND	ND	7.5	ND	ND	ND	ND	ND	9.7	10.9	ND	9.4	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	3.07	ND	ND	ND	ND	ND	3.29	5.01	ND	2.82	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	160.0	346.0	126.0	30.0	25.0	15.0	2.0	35.0	30.0	ND	45.0	110.0	84.0	
EFFLUENT (MG/L)	ND	ND	ND	10.0	ND	ND	ND	ND	ND	28.3	9.7	ND	16.0	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	4.10	ND	ND	ND	ND	ND	9.62	4.46	ND	4.80	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.1	4.8	9.3	1.8	1.5	1.6	3.4	3.4	3.3	ND	3.6	2.8	3.6	
EFFLUENT (MG/L)	ND	ND	ND	2.6	ND	ND	ND	ND	ND	4.0	3.6	ND	3.4	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	1.06	ND	ND	ND	ND	ND	1.36	1.65	ND	1.02	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BLACK RIVER MATHESON
PLANT : BLACK RIVER MATHESON (HOLTYRE)
WORKS NUMBER : 120003209
TREATMENT : COMMUNAL SEPTIC TANK
:
:
DESIGN CAPACITY : 0.00 (1000 M3)

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : BLACK RIVER
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 191

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
PERCENT REMOVAL														
PERCENT REMOVAL LIMITS													0	
													30	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
PERCENT REMOVAL														
PERCENT REMOVAL LIMITS													0	
													50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30%	NO DISCHARGE
SS	50%	NO DISCHARGE
TP	NA	NO DISCHARGE

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - PHASING OUT EXISTING FACILITY			

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BLACK RIVER MATHESON
PLANT : MATHESON WPCP
WORKS NUMBER : 110000025
TREATMENT : EXTENDED AERATION
:
:
DESIGN CAPACITY : 1.04 (1000 M3)

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BLACK RIVER
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 920

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.63	0.64	0.81	1.91	0.91	0.75	0.71	1.20	1.04	0.77	1.10	0.49	0.91	
BOD5														
INFLUENT (MG/L)	102.0	110.0	72.0	24.0	52.0	56.0	34.0	23.0	36.0	56.0	38.0	73.0	56.3	
EFFLUENT (MG/L)	2.1	3.7	4.4	1.7	3.1	7.6	3.1	2.5	2.2	4.8	3.4	4.0	3.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.32	2.36	3.56	3.24	2.82	5.70	2.20	3.00	2.28	3.69	3.74	1.96	3.28	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	75.0	110.0	78.0	38.0	53.0	63.0	35.0	45.0	35.0	58.0	38.0	90.0	59.8	
EFFLUENT (MG/L)	6.2	7.0	14.3	5.0	6.0	7.5	8.0	4.0	5.0	5.0	6.0	6.0	6.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.90	4.48	11.58	9.55	5.46	5.62	5.68	4.80	5.20	3.85	6.60	2.94	6.10	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.0	7.2	3.8	1.9	4.2	5.2	2.9	3.4	2.5	2.6	2.5	3.7	3.7	
EFFLUENT (MG/L)	3.1	2.7	3.1	0.6	2.4	2.9	3.2	1.9	2.1	1.9	1.1	1.7	2.2	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	1.95	1.72	2.51	1.14	2.18	2.17	2.27	2.28	2.18	1.46	1.21	0.83	2.00	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BLACK RIVER MATHESON
PLANT : RAMORE LAGOON
WORKS NUMBER : 110001104
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS
:
:
DESIGN CAPACITY : 0.12 (1000 M3)

REGION : NORTHEAST
DISIRICT : COCHRANE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BLACK RIVER
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 320

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.23	0.09	0.12	0.94	0.41	0.31	0.13	0.21	0.19	0.19	0.21	0.13	0.26	
LAGOON DISCHARGE	2.55	2.48	3.71	21.08	10.82	ND	ND	ND	1.28	5.96	6.32	4.08	6.48	
BOD5														
INFLUENT (MG/L)	108.0	195.0	92.0	34.0	52.0	81.0	33.0	31.0	44.0	89.0	87.0	70.0	76.3	
EFFLUENT (MG/L)	17.9	36.5	34.3	12.5	33.0	ND	ND	ND	25.5	7.8	3.8	7.9	19.9	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	4.11	3.28	4.11	11.75	13.53	ND	ND	ND	4.84	1.48	0.79	1.02	5.17	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	110.0	190.0	88.0	32.0	75.0	50.0	45.0	22.0	32.0	85.0	137.0	70.0	78.0	
EFFLUENT (MG/L)	10.0	32.5	30.0	10.0	56.3	ND	ND	ND	17.5	19.0	3.0	7.0	20.6	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	2.30	2.92	3.60	9.40	23.08	ND	ND	ND	3.32	3.61	0.63	0.91	5.36	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.8	5.8	6.2	15.1	4.4	4.7	3.2	2.9	4.9	4.8	2.2	14.9	6.4	
EFFLUENT (MG/L)	3.6	4.2	4.2	2.1	3.0	ND	ND	ND	2.6	3.4	3.1	3.5	3.3	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.82	0.37	0.50	1.97	1.23	ND	ND	ND	0.49	0.64	0.65	0.45	0.86	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - FINAL DESIGN PHASE			1988/08

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BLACK RIVER MATHESON
PLANT : VAL GAGNE LAGOON
WORKS NUMBER : 120001559
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS
: SUMMER STORAGE
:
DESIGN CAPACITY : 0.12 (1000 M3)

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : CREEK TO BLACK RIVER
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 300

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LAGOON DISCHARGE	ND	ND	ND	7.06	12.66	ND	ND	ND	ND	ND	ND	ND	9.86	
BOD5														
INFLUENT (MG/L)	139.0	120.0	71.0	36.0	38.0	107.0	45.0	56.0	110.0	58.0	33.0	118.0	77.6	
EFFLUENT (MG/L)	27.5	19.5	35.0	5.9	27.2	57.0	ND	ND	ND	ND	ND	5.3	25.3	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	90.0	227.0	85.0	50.0	60.0	182.0	55.0	55.0	122.0	72.0	50.0	130.0	98.2	
EFFLUENT (MG/L)	11.2	8.5	17.5	7.0	77.8	132.0	ND	ND	ND	ND	ND	6.0	37.1	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.4	7.8	3.5	3.4	4.1	9.0	5.6	3.2	5.5	3.6	13.3	5.3	5.6	
EFFLUENT (MG/L)	3.1	3.8	3.8	1.1	3.0	4.9	ND	ND	ND	ND	ND	2.4	3.2	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - FINAL DESIGN PHASE	1988/10		

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BLIND RIVER
PLANT : BLIND RIVER WPCP
WORKS NUMBER : 110002416
TREATMENT : EXTENDED AERATION

DESIGN CAPACITY : 3.50 (1000 M3)

REGION : NORTHEAST
DISTRICT : ALGOMA
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : LAKE HURON
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,200

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.72	1.60	1.78	2.63	1.95	2.24	2.12	2.40	2.32	3.01	3.95	2.48	2.35	
BOD5														
INFLUENT (MG/L)	61.6	94.0	128.0	29.0	90.0	99.0	68.0	45.0	70.0	23.0	88.0	36.0	69.3	
EFFLUENT (MG/L)	2.4	3.5	4.9	3.1	3.9	3.2	1.9	6.7	2.6	2.9	1.1	1.4	3.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	4.12	5.60	8.72	8.15	7.60	7.16	4.02	16.08	6.03	8.72	4.34	3.47	7.29	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	65.4	65.1	88.0	43.0	105.0	70.0	70.0	56.0	91.0	27.0	102.0	80.0	71.9	
EFFLUENT (MG/L)	6.4	6.2	4.0	4.3	11.2	6.5	5.5	4.7	5.8	7.5	6.7	7.2	6.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	11.00	9.92	7.12	11.30	21.84	14.56	11.66	11.28	13.45	22.57	26.46	17.85	14.81	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.9	5.4	6.1	2.2	5.6	5.5	4.2	3.2	4.7	4.2	4.6	3.2	4.5	
EFFLUENT (MG/L)	3.2	3.1	2.8	1.4	2.9	5.1	3.3	1.9	1.8	1.8	1.1	1.4	2.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	5.50	4.96	4.98	3.68	5.65	11.42	6.99	4.56	4.17	5.41	4.34	3.47	5.88	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BRUCE MINES
PLANT : BRUCE MINES LAGOON
WORKS NUMBER : 110001756
TREATMENT : CONVENTIONAL LAGOON SEASONAL
DESIGN CAPACITY : 0.28 (1000 M3)

REGION : NORTHEAST
DISTRICT : ALGOMA
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : ST.JOSEPH CHL.TO L.HURON
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 525

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.30	0.33	0.33	0.62	0.38	0.27	0.25	0.29	0.28	0.38	0.65	0.42	0.38	
LAGOON DISCHARGE	ND	ND	ND	28.80	ND	ND	ND	ND	ND	ND	5.05	ND	16.93	
BOD5														
INFLUENT (MG/L)	24.0	68.0	72.0	14.0	135.0	52.0	86.0	76.0	70.0	23.0	118.0	23.0	63.4	
EFFLUENT (MG/L)	ND	ND	ND	1.8	ND	ND	ND	ND	ND	ND	16.6	ND	9.2	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	1.11	ND	ND	ND	ND	ND	ND	10.79	ND	3.50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	35.0	28.0	35.0	18.0	120.0	60.0	50.0	40.0	37.0	17.0	180.0	25.0	53.8	
EFFLUENT (MG/L)	ND	ND	ND	9.9	ND	ND	ND	ND	ND	ND	29.0	ND	19.5	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	6.13	ND	ND	ND	ND	ND	ND	18.85	ND	7.41	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	1.4	6.8	3.0	13.0	7.9	4.3	1.6	6.2	1.9	5.1	
EFFLUENT (MG/L)	ND	ND	ND	1.8	ND	ND	ND	ND	ND	ND	1.9	ND	1.9	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	1.11	ND	ND	ND	ND	ND	ND	1.23	ND	0.72	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - FINAL DESIGN PHASE	1989/06		

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BURK'S FALLS
PLANT : BURKS FALLS LAGOON
WORKS NUMBER : 110001426
TREATMENT : CONVENTIONAL LAGOON SEASONAL
:
:
DESIGN CAPACITY : 0.68 (1000 M3)

REGION : NORTHEAST
DISTRICT : PARRY SOUND
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : MAGNETAWAN RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 800

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.30	0.35	0.41	0.52	0.41	0.34	0.31	0.35	0.35	0.35	0.41	0.34	0.37	
LAGOON DISCHARGE	ND	ND	ND	60.80	ND	ND	ND	ND	ND	ND	67.40	ND	64.10	
BOD5														
INFLUENT (MG/L)	154.0	65.0	115.0	41.0	83.0	113.0	83.0	90.0	130.0	84.0	64.0	78.0	91.7	
EFFLUENT (MG/L)	ND	ND	ND	10.8	ND	ND	ND	ND	ND	ND	3.3	ND	7.1	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	5.61	ND	ND	ND	ND	ND	ND	1.35	ND	2.63	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	175.0	115.0	200.0	70.0	80.0	120.0	83.0	85.0	75.0	73.0	80.0	93.0	104.1	
EFFLUENT (MG/L)	ND	ND	ND	20.0	ND	ND	ND	ND	ND	ND	7.7	ND	13.9	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	10.40	ND	ND	ND	ND	ND	ND	3.15	ND	5.14	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.1	5.0	7.5	3.1	5.3	6.7	7.4	4.7	6.3	5.4	4.2	4.8	5.5	
EFFLUENT (MG/L)	ND	ND	ND	3.6	ND	ND	ND	ND	ND	ND	2.5	ND	3.1	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	1.87	ND	ND	ND	ND	ND	ND	1.02	ND	1.15	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : CALDWELL
PLANT : VERNER LAGOON
WORKS NUMBER : 110001872
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 0.47 (1000 M3)

REGION : NORTHEAST
DISTRICT : NIPPISSING
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : VEUVE RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,116

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.43	0.48	0.52	0.92	0.67	0.50	0.50	0.62	0.57	0.75	0.80	0.55	0.61	
LAGOON DISCHARGE	ND	ND	5.18	27.62	40.54	ND	ND	ND	36.03	26.67	ND	ND	27.21	
BOD5														
INFLUENT (MG/L)	112.0	84.0	89.0	31.0	38.0	62.0	78.0	109.0	65.0	30.0	27.0	46.0	64.3	
EFFLUENT (MG/L)	ND	ND	ND	13.2	8.1	ND	ND	ND	3.3	2.8	ND	ND	6.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	12.14	5.42	ND	ND	ND	1.88	2.10	ND	ND	4.21	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	110.0	113.0	112.0	122.0	125.0	95.0	126.0	52.0	47.0	42.0	42.0	70.0	88.0	
EFFLUENT (MG/L)	ND	ND	ND	17.5	11.7	ND	ND	ND	11.4	8.0	ND	ND	12.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	16.10	7.83	ND	ND	ND	6.49	6.00	ND	ND	7.44	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.0	5.0	3.6	2.6	3.8	3.6	3.9	3.3	2.7	2.0	2.9	3.8	3.4	
EFFLUENT (MG/L)	ND	ND	ND	1.3*	1.0	ND	ND	ND	0.3	0.3	ND	ND	0.7	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	1.19	0.67	ND	ND	ND	0.17	0.22	ND	ND	0.43	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW	1988/06	1988/12	

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : CAPREOL
PLANT : CAPREOL LAGOON
WORKS NUMBER : 120001210
TREATMENT : EXFILTRATION LAGOON
:
:
DESIGN CAPACITY : 1.54 (1000 M3)

REGION : NORTHEAST
DISTRICT : SUDBURY, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NO DISC TO SURFACE WATER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,352

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	5.19	1.77	3.28	5.37	3.77	4.66	3.41	3.73	4.00	8.75	4.44	6.50	4.57	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	6.8	ND	11.0	ND	ND	16.0	ND	ND	11.3	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	25.63	ND	37.51	ND	ND	140.00	ND	ND	51.64	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	20.0	ND	25.0	ND	ND	35.0	ND	ND	26.7	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	75.40	ND	85.25	ND	ND	306.25	ND	ND	122.02	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	1.3	ND	2.1	ND	ND	2.0	ND	ND	1.8	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	4.90	ND	7.16	ND	ND	17.50	ND	ND	8.23	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	NA	NO DIRECT DISCHARGE
SS	NA	NO DIRECT DISCHARGE
TP	NA	NO DIRECT DISCHARGE

NOTE:
BOD - HAS NO CRITERIA
SS - HAS NO CRITERIA
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - CONVERTING TO ALTERNATIVE PROCESS			1989/12

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : CASEY
PLANT : BELLE VALLEE LAGOON
WORKS NUMBER : 120001808
TREATMENT : CONVENTIONAL LAGOON SEASONAL
:
:
DESIGN CAPACITY : 0.12 (1000 M3)

REGION : NORTHEAST
DISTRICT : TIMISKAMING
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : BLANCHE RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED :

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	260.0	180.0	175.0	ND	185.0	375.0	235.0	780.0	260.0	ND	300.0	305.6	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.8	ND	9.8	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	85.0	55.0	110.0	ND	35.0	45.0	210.0	560.0	130.0	ND	140.0	152.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22.0	ND	22.0	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHORUS														
INFLUENT (MG/L)	ND	12.0	10.5	11.0	ND	12.0	45.0	14.0	29.0	7.4	ND	15.0	17.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.7	ND	5.7	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : CASIMIR J.A.
PLANT : ST.CHARLES LAGOON
WORKS NUMBER : 110002256
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 0.54 (1000 M3)

REGION : NORTHEAST
DISIRICT : SUDBURY DIST.
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : MCPHERSON CREEK W.BRANCH
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 280

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.09	0.09	0.18	0.45	0.26	0.14	0.11	0.13	0.15	0.28	0.36	0.23	0.21	
LAGOON DISCHARGE	ND	ND	ND	51.60	ND	ND	ND	ND	ND	ND	ND	ND	51.60	
BOD5														
INFLUENT (MG/L)	87.0	86.0	ND	72.0	95.0	185.0	170.0	98.0	50.0	125.0	44.0	81.0	99.4	
EFFLUENT (MG/L)	ND	ND	ND	6.0	ND	ND	ND	ND	ND	ND	ND	ND	6.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	2.70	ND	ND	ND	ND	ND	ND	ND	ND	1.26	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	72.0	70.0	ND	105.0	110.0	140.0	75.0	110.0	50.0	130.0	38.0	158.0	96.2	
EFFLUENT (MG/L)	ND	ND	ND	14.3	ND	ND	ND	ND	ND	ND	ND	ND	14.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	6.43	ND	ND	ND	ND	ND	ND	ND	ND	3.00	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.4	4.9	ND	4.8	5.0	3.3	6.3	6.0	4.3	7.0	3.3	4.4	5.1	
EFFLUENT (MG/L)	ND	ND	ND	1.4*	ND	ND	ND	ND	ND	ND	ND	ND	1.4	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	0.63	ND	ND	ND	ND	ND	ND	ND	ND	0.29	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - OPERATIONAL PROCEDURES BEING UPGRADED			
OPERATIONAL/PROCESS - SAMPLING PROGRAM BEING MODIFIED			

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : CHAPLEAU
PLANT : CHAPLEAU LAGOON
WORKS NUMBER : 110002149
TREATMENT : AERATED LAGOON
: CONTINUOUS DISCHARGE
: SERIES OPERATION
DESIGN CAPACITY : 4.54 (1000 M3)

REGION : NORTHEAST
DISTRICT : SUDBURY DIST.
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : NEBSKWASH
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 2,450

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.02	2.07	2.24	2.27	3.13	2.95	2.37	2.75	2.61	2.39	3.60	3.34	2.73	
LAGOON DISCHARGE	93.60	60.04	69.39	68.10	93.84	88.35	73.52	85.10	78.30	74.04	108.13	103.49	82.99	
BOD5														
INFLUENT (MG/L)	91.0	62.0	114.0	72.0	57.0	42.0	35.0	35.0	89.0	37.0	24.0	51.0	59.1	
EFFLUENT (MG/L)	22.0	16.0	11.0	11.0	15.5	10.0	26.0	4.9	2.1	29.4	19.2	10.3	14.8	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	66.44	33.12	24.64	24.97	48.51	29.50	61.62	13.47	5.48	70.26	69.12	34.40	40.40	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	175.0	95.0	175.0	100.0	7.0	105.0	57.0	57.0	314.0	34.0	28.0	87.0	102.8	
EFFLUENT (MG/L)	32.5	10.0	9.0	10.0	45.0	16.5	25.0	5.0	5.5	55.0	27.5	12.5	21.1	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	98.15	20.70	20.16	22.70	140.85	48.67	59.25	13.75	14.35	131.45	99.00	41.75	57.60	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.2	3.4	3.2	2.3	2.7	2.2	3.5	3.5	1.4	1.7	1.1	1.6	2.5	
EFFLUENT (MG/L)	4.2	1.8	1.6	0.8	0.8	0.7	0.9	1.1	0.8	1.7	1.2	0.9	1.4	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	12.68	3.72	3.58	1.81	2.50	2.06	2.13	3.02	2.08	4.06	4.32	3.00	3.82	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : COCHRANE
PLANT : COCHRANE WPCP
WORKS NUMBER : 120000355
TREATMENT : EXTENDED AERATION
: EFFLUENT POLISHING
:
DESIGN CAPACITY : 3.41 (1000 M3)

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LILLABELLE LAKE
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 4,600

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.53	3.89	4.23	7.33	5.09	3.98	3.24	3.24	2.89	ND	ND	ND	4.16	
BOD5														
INFLUENT (MG/L)	144.0	121.0	108.0	ND	83.0	84.0	68.0	77.0	80.0	ND	ND	ND	95.6	
EFFLUENT (MG/L)	33.0	91.5	124.0	ND	15.9	34.0	90.0	10.2	7.3	ND	ND	ND	50.7*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	116.49	355.93	524.52	ND	80.93	135.32	291.60	33.04	21.09	ND	ND	ND	210.91	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	150.0	160.0	220.0	ND	92.0	110.0	73.0	68.0	75.0	ND	ND	ND	118.5	
EFFLUENT (MG/L)	45.0	360.0	320.0	ND	35.0	180.0	125.0	13.5	2.0	ND	ND	ND	135.1*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	158.85	1400.40	1353.60	ND	178.15	716.40	405.00	43.74	5.78	ND	ND	ND	562.02	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.9	4.6	5.0	ND	4.2	5.1	6.0	4.3	4.2	ND	ND	ND	4.8	
EFFLUENT (MG/L)	1.3	7.5	7.8	ND	1.9	6.6	4.6	0.9	1.0	ND	ND	ND	4.0	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	4.58	29.17	32.99	ND	9.67	26.26	14.90	2.91	2.89	ND	ND	ND	16.64	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	INSUFFICIENT DATA
SS	25.0 MG/L	INSUFFICIENT DATA
TP	NA	INSUFFICIENT DATA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
INFLUENT SEWAGE - REDUCE WINTER BLEEDING			

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : COSBY M.M.
PLANT : NOELVILLE LAGOON
WORKS NUMBER : 110002425
TREATMENT : CONVENTIONAL LAGOON SEASONAL
:
:
DESIGN CAPACITY : 0.79 (1000 M3)

REGION : NORTHEAST
DISTRICT : SUDBURY DIST.
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : WOLF RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 551

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.22	0.23	0.29	0.44	0.30	0.24	0.19	0.17	0.19	0.26	0.34	0.25	0.26	
LAGOON DISCHARGE	ND	ND	ND	70.50	ND	ND	ND	ND	ND	ND	ND	ND	70.50	
BOD5														
INFLUENT (MG/L)	146.0	206.0	226.0	20.0	145.0	153.0	125.0	131.0	118.0	83.0	55.0	20.0	119.0	
EFFLUENT (MG/L)	ND	ND	ND	7.3	ND	ND	ND	ND	ND	ND	ND	ND	7.3	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	3.21	ND	ND	ND	ND	ND	ND	ND	ND	1.90	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	527.0	ND	212.0	330.0	ND	258.0	115.0	128.0	93.0	ND	ND	ND	237.6	
EFFLUENT (MG/L)	ND	ND	ND	20.0	ND	ND	ND	ND	ND	ND	ND	ND	20.0	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	8.80	ND	ND	ND	ND	ND	ND	ND	ND	5.20	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.8	9.6	12.6	1.0	6.3	6.6	5.4	5.9	4.9	4.0	2.7	1.5	5.4	
EFFLUENT (MG/L)	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	1.4	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	0.61	ND	ND	ND	ND	ND	ND	ND	ND	0.36	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : DUBREUILVILLE
PLANT : DUBREUILVILLE LAGOON IN OP.1987
WORKS NUMBER : 110001970
TREATMENT : EXFILTRATION LAGOON
:
:
DESIGN CAPACITY : 0.59 (1000 M3)

REGION : NORTHEAST
DISTRICT : ALGOMA
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : NO DISC.TO SURFACE WATER
MINOR BASIN : SUPERIOR
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	NA	NO DIRECT DISCHARGE
SS	NA	NO DIRECT DISCHARGE
TP	NA	NO DIRECT DISCHARGE

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - HAS NO CRITERIA
SS - HAS NO CRITERIA
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ELLIOT LAKE
PLANT : ESTEN LAKE WPCP
WORKS NUMBER : 120001121
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING
DESIGN CAPACITY : 13.00 (1000 M3)

REGION : NORTHEAST
DISTRICT : ALGOMA
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : ESTEN LAKE
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 19,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	5.12	5.09	7.03	11.61	6.46	5.88	6.61	7.94	7.00	8.84	10.96	6.74	7.44	
BOD5														
INFLUENT (MG/L)	70.0	76.0	63.0	36.0	60.0	54.0	74.0	70.0	45.0	62.0	50.0	50.0	59.2	
EFFLUENT (MG/L)	9.0	7.6	7.4	5.4	7.1	23.0	6.7	5.1	34.0	17.0	16.0	22.0	13.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	46.08	38.68	52.02	62.69	45.86	135.24	44.28	40.49	238.00	150.28	175.36	148.28	99.70	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	73.0	56.0	61.0	54.0	62.0	67.0	53.0	61.0	80.0	64.0	43.0	59.0	61.1	
EFFLUENT (MG/L)	13.0	13.0	9.7	8.4	8.0	10.0	8.1	8.0	13.1	9.4	10.5	11.0	10.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	66.56	66.17	68.19	97.52	51.68	58.80	53.54	63.52	91.70	83.09	115.08	74.14	75.89	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.4	4.2	3.9	3.1	3.9	4.4	3.6	3.2	4.2	3.2	3.7	3.6	3.8	
EFFLUENT (MG/L)	1.0	0.8	0.8	0.6	0.8	0.9	0.6	0.8	0.9	0.8	0.7	0.9	0.8	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	5.12	4.07	5.62	6.96	5.16	5.29	3.96	6.35	6.30	7.07	7.67	6.06	5.95	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ENGLEHART
PLANT : ENGLEHART LAGOON
WORKS NUMBER : 110000187
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 0.90 (1000 M3)

REGION : NORTHEAST
DISTRICT : TIMISKAMING
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : ENGLEHART RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,730

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.10	1.00	1.35	3.92	2.34	1.40	1.51	1.56	1.49	2.05	2.62	1.15	1.79	
LAGOON DISCHARGE	34.33	29.28	42.00	117.45	72.66	41.94	47.00	47.00	44.80	63.40	78.80	35.80	54.54	
BOD5														
INFLUENT (MG/L)	81.0	80.0	79.0	30.0	53.0	56.0	63.0	69.0	84.0	50.0	36.0	125.0	67.2	
EFFLUENT (MG/L)	4.1	7.1	17.0	10.0	5.2	3.1	3.3	2.3	1.9	1.9	5.3	5.5	5.6	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	4.51	7.10	22.95	39.20	12.16	4.34	4.98	3.58	2.83	3.89	13.88	6.32	10.02	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	105.0	170.0	240.0	150.0	165.0	117.0	150.0	100.0	157.0	77.0	38.0	195.0	138.7	
EFFLUENT (MG/L)	10.0	17.5	146.0	15.0	19.3	17.5	6.5	2.5	3.0	5.5	13.6	27.5	23.7	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	11.00	17.50	197.10	58.80	45.16	24.50	9.81	3.90	4.47	11.27	35.63	31.62	42.42	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.8	5.2	4.7	1.4	3.3	3.9	4.0	3.8	8.5	2.9	1.8	4.7	4.0	
EFFLUENT (MG/L)	0.7	1.1*	1.7*	0.7	0.2	0.5	0.7	0.8	0.6	0.4	0.2	0.4	0.7	2
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.77	1.10	2.29	2.74	0.46	0.70	1.05	1.24	0.89	0.82	0.52	0.46	1.25	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - MONITORING PROCEDURES BEING UPGRADED		1988/03	1988/04

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ESPANOLA
PLANT : ESPANOLA WPCP
WORKS NUMBER : 110000212
TREATMENT : PRIMARY

DESIGN CAPACITY : 3.00 (1000 M3)

REGION : NORTHEAST
DISTRICT : SUDBURY DIST.
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : SPANISH RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 5,200

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.89	2.93	3.12	2.89	2.74	2.66	2.59	2.89	3.19	3.09	2.90	3.06	2.91	
BOD5														
INFLUENT (MG/L)	91.0	72.0	77.0	94.0	89.0	78.0	63.0	64.0	86.0	75.0	82.0	72.0	78.6	
EFFLUENT (MG/L)	54.3	52.0	42.0	72.0	52.0	38.3	25.5	35.5	51.5	45.5	44.0	40.5	46.1	
LOADING (KG/D)	156.92	152.36	131.04	208.08	142.48	101.87	66.04	102.59	164.28	140.59	127.60	123.93	134.15	
PERCENT REMOVAL	40	28	45	23	42	51	60	45	40	39	46	44	41	
PERCENT REMOVAL LIMITS													30	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	93.0	105.0	125.0	120.0	95.0	92.0	78.0	93.0	53.0	65.0	70.0	120.0	92.4	
EFFLUENT (MG/L)	36.7	55.0	50.0	67.5	52.5	40.0	32.5	30.0	42.5	37.5	35.0	52.5	44.3	
LOADING (KG/D)	106.06	161.15	156.00	195.07	143.85	106.40	84.17	86.70	135.57	115.87	101.50	160.65	128.91	
PERCENT REMOVAL	61	48	60	44	45	57	58	68	20	42	50	56	52	
PERCENT REMOVAL LIMITS													50	
TOTAL PHOSPHORUS														
INFLUENT (MG/L)	3.8	4.7	4.9	5.1	6.1	6.1	7.5	5.1	4.8	6.8	8.3	4.1	5.6	
EFFLUENT (MG/L)	3.2	4.6	4.0	5.6	5.1	5.2	4.3	4.2	7.1	6.0	4.5	3.9	4.8	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	9.24	13.47	12.48	16.18	13.97	13.83	11.13	12.13	22.64	18.54	13.05	11.93	13.97	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30%	YES
SS	50%	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

START DATE	END DATE	ANTICIPATED COMPLIANCE

SLUDGE DISPOSAL/REMOVAL - SLUDGE QUALITY BEING IMPROVED

1986 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : FAUQUIER-STRICKLAND
PLANT : FAUQUIER LAGOON
WORKS NUMBER : 110001792
TREATMENT : CONVENTIONAL LAGOON SEASONAL
:
:
DESIGN CAPACITY : 0.27 (1000 M3)

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : GROUNDHOG RIVER
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 650

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.41	0.32	0.29	0.61	0.45	0.45	0.29	0.45	0.40	0.40	0.57	0.29	0.41	
LAGOON DISCHARGE	ND	ND	ND	ND	34.30	ND	ND	ND	ND	ND	ND	ND	34.30	
BOD5														
INFLUENT (MG/L)	ND	31.0	106.0	34.0	25.0	42.0	80.0	ND	ND	54.0	ND	104.0	59.5	
EFFLUENT (MG/L)	ND	ND	ND	ND	13.5	ND	ND	ND	ND	ND	ND	ND	13.5	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	6.07	ND	ND	ND	ND	ND	ND	ND	5.54	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	95.0	170.0	210.0	160.0	340.0	95.0	ND	ND	90.0	ND	140.0	162.5	
EFFLUENT (MG/L)	ND	ND	ND	ND	21.7	ND	ND	ND	ND	ND	ND	ND	21.7	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	9.76	ND	ND	ND	ND	ND	ND	ND	8.90	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	1.0	1.5	1.4	2.6	3.6	2.3	ND	ND	2.2	ND	3.2	2.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	1.5	ND	ND	ND	ND	ND	ND	ND	1.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	0.67	ND	ND	ND	ND	ND	ND	ND	0.62	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : GORE BAY
PLANT : GORE BAY LAGOON
WORKS NUMBER : 110002513
TREATMENT : CONVENTIONAL LAGOON SEASONAL
DESIGN CAPACITY : 0.63 (1000 M3)

REGION : NORTHEAST
DISTRICT : MANITOULIN
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : LAKE HURON
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 780

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.41	0.52	0.62	0.79	0.44	0.34	0.42	0.36	0.33	0.47	0.79	0.55	0.50	
LAGOON DISCHARGE	ND	ND	ND	78.12	58.80	ND	ND	ND	ND	ND	89.20	ND	75.37	
BOD5														
INFLUENT (MG/L)	ND	350.0	16.0	80.0	ND	94.0	52.0	40.0	52.0	125.0	36.0	48.0	89.3	
EFFLUENT (MG/L)	ND	ND	ND	12.8	2.3	ND	ND	ND	ND	ND	4.0	ND	6.4	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	10.11	1.01	ND	ND	ND	ND	ND	3.16	ND	3.20	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	30.0	100.0	ND	100.0	35.0	20.0	35.0	70.0	25.0	30.0	49.4	
EFFLUENT (MG/L)	ND	ND	ND	32.3	10.5	ND	ND	ND	ND	ND	5.4	ND	16.1	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	25.51	4.62	ND	ND	ND	ND	ND	4.26	ND	8.05	
TOTAL PHOSPHORUS														
INFLUENT (MG/L)	12.0	2.7	1.1	2.9	ND	3.3	3.7	3.7	3.7	5.6	1.3	ND	4.0	
EFFLUENT (MG/L)	ND	ND	ND	3.6	1.2	ND	ND	ND	ND	ND	1.7	ND	2.2	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	2.84	0.52	ND	ND	ND	ND	ND	1.34	ND	1.10	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : HAILEYBURY
PLANT : LAKE TEMISKAMING NEW WPCP
WORKS NUMBER : 110002158
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 1.60 (1000 M3)

REGION : NORTHEAST
DISTRICT : TIMISKAMING
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : LAKE TEMISKAMING
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED :

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.20	1.20	1.66	3.48	2.09	1.50	1.17	1.40	1.39	1.84	2.09	1.46	1.71	
BOD5														
INFLUENT (MG/L)	94.0	112.0	94.0	38.0	75.0	96.0	140.0	54.0	ND	98.0	54.0	136.0	90.1	
EFFLUENT (MG/L)	4.3	8.8	5.9	5.5	4.7	3.7	1.2	0.6	ND	2.2	1.1	1.6	3.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	5.16	10.56	9.79	19.14	9.82	5.55	1.40	0.84	ND	4.04	2.29	2.33	6.16	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	81.0	117.0	103.0	68.0	84.0	95.0	93.0	104.0	67.0	70.0	97.0	116.0	91.3	
EFFLUENT (MG/L)	13.0	25.5	21.0	14.2	20.2	18.0	13.0	11.5	13.5	11.7	9.3	9.0	15.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	15.60	30.60	34.86	49.41	42.21	27.00	15.21	16.10	18.76	21.52	19.43	13.14	25.65	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.2	8.3	3.0	1.4	3.1	3.9	7.2	4.0	ND	6.4	3.0	1.5	4.1	
EFFLUENT (MG/L)	0.8	0.6	0.6	0.3	0.4	0.5	0.3	0.4	0.2	ND	0.3		0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.96	0.72	0.99	1.04	0.83	0.75	0.35	0.56	0.27	ND	0.62		0.68	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 CERTIFICATE OF APPROVAL ASSESSMENT

MUNICIPALITY : HAILEYBURY
PLANT : LAKE TEMISKAMING OLD WPCP
WORKS NUMBER : 110000310
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 1.59 (1000 M3)

REGION : NORTHEAST
DISTRICT : TIMISKAMING
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : LAKE TIMISKAMING
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,240

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.35	1.30	0.92	ND	ND	1.45	1.31	1.70	1.54	1.93	2.01	1.48	1.50	
BOD5														
INFLUENT (MG/L)	118.0	110.0	94.0	ND	ND	22.0	140.0	54.0	77.0	106.0	78.0	136.0	93.5	
EFFLUENT (MG/L)	3.3	5.5	4.9	ND	ND	10.6	2.0	0.6	2.2	2.1	1.0	1.8	3.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	4.45	7.15	4.50	ND	ND	15.37	2.62	1.02	3.38	4.05	2.01	2.66	5.10	
LOADING LIMIT (KG/D)													68.20	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	76.0	112.0	106.0	ND	ND	48.0	93.0	104.0	67.0	70.0	89.0	116.0	88.1	
EFFLUENT (MG/L)	14.6	23.3	28.7	ND	ND	20.0	15.0	10.5	12.0	5.2	6.8	8.0	14.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	19.71	30.29	26.40	ND	ND	29.00	19.65	17.85	18.48	10.03	13.66	11.84	21.60	
LOADING LIMIT (KG/D)													68.20	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.9	7.5	2.6	ND	ND	1.9	7.2	4.0	4.4	7.0	4.2	0.8	4.3	
EFFLUENT (MG/L)	0.7	0.8	0.7	ND	ND	1.1	0.3	0.4	0.2	1.1	0.2	0.3	0.6	
CONCENTRATION LIMIT (MG/L)													1.0	
LOADING (KG/D)	0.94	1.04	0.64	ND	ND	1.59	0.39	0.68	0.30	2.12	0.40	0.44	0.90	
LOADING LIMIT (KG/D)													2.70	

SUMMARY

PARM	CRITERIA	LOADING	COMPLIES WITH CONC	LOADING
BOD	25.0 MG/L	68.20 KG/D	YES	YES
SS	25.0 MG/L	68.20 KG/D	YES	YES
TP	1.0 MG/L	2.70 KG/D	YES	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED ANNUALLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : HAILEYBURY
PLANT : LAKE TEMISKAMING OLD WPCP
WORKS NUMBER : 110000310
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 1.59 (1000 M3)

REGION : NORTHEAST
DISTRICT : TIMISKAMING
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : LAKE TIMISKAMING
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,240

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.35	1.30	0.92	ND	ND	1.45	1.31	1.70	1.54	1.93	2.01	1.48	1.50	
BOD5														
INFLUENT (MG/L)	118.0	110.0	94.0	ND	ND	22.0	140.0	54.0	77.0	106.0	78.0	136.0	93.5	
EFFLUENT (MG/L)	3.3	5.5	4.9	ND	ND	10.6	2.0	0.6	2.2	2.1	1.0	1.8	3.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	4.45	7.15	4.50	ND	ND	15.37	2.62	1.02	3.38	4.05	2.01	2.66	5.10	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	76.0	112.0	106.0	ND	ND	48.0	93.0	104.0	67.0	70.0	89.0	116.0	88.1	
EFFLUENT (MG/L)	14.6	23.3	28.7	ND	ND	20.0	15.0	10.5	12.0	5.2	6.8	8.0	14.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	19.71	30.29	26.40	ND	ND	29.00	19.65	17.85	18.48	10.03	13.66	11.84	21.60	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.9	7.5	2.6	ND	ND	1.9	7.2	4.0	4.4	7.0	4.2	0.8	4.3	
EFFLUENT (MG/L)	0.7	0.8	0.7	ND	ND	1.1*	0.3	0.4	0.2	1.1*	0.2	0.3	0.6	2
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.94	1.04	0.64	ND	ND	1.59	0.39	0.68	0.30	2.12	0.40	0.44	0.90	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : HAILEYBURY
PLANT : NORTH COBALT LAGOON
WORKS NUMBER : 110001382
TREATMENT : CONVENTIONAL LAGOON SEASONAL
DESIGN CAPACITY : 0.34 (1000 M3)

REGION : NORTHEAST
DISTRICT : TIMISKAMING
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : FARR CREEK
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 800

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.65	0.50	0.57	1.30	0.69	0.47	0.39	0.61	0.52	0.91	1.09	0.44	0.68	
LAGOON DISCHARGE	ND	14.63	17.67	59.17	23.35	ND	ND	18.99	54.27	21.33	22.05	13.76	27.25	
BOD5														
INFLUENT (MG/L)	158.0	106.0	71.0	41.0	77.0	71.0	150.0	84.0	95.0	53.0	70.0	82.0	88.2	
EFFLUENT (MG/L)	ND	ND	ND	14.0	26.0	ND	ND	ND	20.0	ND	ND	ND	20.0	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	18.20	17.94	ND	ND	ND	10.40	ND	ND	ND	13.60	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	21.0	155.0	105.0	85.0	80.0	95.0	41.0	100.0	80.0	52.0	80.0	110.0	83.7	
EFFLUENT (MG/L)	ND	ND	ND	20.0	45.0	ND	ND	ND	56.7	ND	ND	ND	40.6*	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	26.00	31.05	ND	ND	ND	29.48	ND	ND	ND	27.61	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.5	5.9	4.1	2.0	5.4	7.2	9.3	6.1	5.4	4.7	3.3	3.1	5.3	
EFFLUENT (MG/L)	ND	ND	ND	2.6	2.9	ND	ND	ND	3.8	ND	ND	ND	3.1	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	3.38	2.00	ND	ND	ND	1.97	ND	ND	ND	2.11	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	NO
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : HALLEBOURG
PLANT : HALLEBOURG LAGOON
WORKS NUMBER : 1200002031
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 24.80 (1000 M3)

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LAKE MCILWROTH
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 260

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.28	ND	ND	8.28	
BOD5														
INFLUENT (MG/L)	400.0	270.0	303.0	105.0	ND	160.0	420.0	145.0	300.0	ND	195.0	315.0	261.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.7	ND	ND	5.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	160.0	120.0	290.0	110.0	ND	180.0	290.0	110.0	240.0	ND	220.0	230.0	195.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.7	ND	ND	12.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	15.0	8.0	15.0	6.4	ND	9.3	22.0	6.9	14.0	ND	7.9	16.0	12.1	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.4	ND	ND	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : HEARST
PLANT : CECILE TRAILER PARK LAGOON
WORKS NUMBER : 120001997
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS
:
:
DESIGN CAPACITY : 0.07 (1000 M3)

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : MATTAWISHKWIA RIVER
MINOR BASIN : SUPERIOR
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 140

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	205.0	690.0	ND	ND	ND	ND	ND	ND	270.0	135.0	66.0	185.0	258.5	
EFFLUENT (MG/L)	ND	ND	ND	ND	22.0	ND	ND	ND	ND	ND	ND	ND	22.0	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	1,930.0	2,710.0	ND	ND	ND	ND	ND	ND	65.0	110.0	55.0	120.0	831.7	
EFFLUENT (MG/L)	ND	ND	ND	ND	70.0	ND	ND	ND	ND	ND	ND	ND	70.0	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	9.5	31.0	ND	ND	ND	ND	ND	ND	6.1	8.1	4.0	7.4	11.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	1.3	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	INSUFFICIENT DATA
SS	40.0 MG/L	INSUFFICIENT DATA
TP	NA	INSUFFICIENT DATA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
M - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

MINISTRY TO OPERATE IN 1989

START DATE	END DATE	ANTICIPATED COMPLIANCE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : HEARST
PLANT : HEARST LAGOON
WORKS NUMBER : 110000338
TREATMENT : AERATED CELL PLUS LAGOON
: CONTINUOUS DISCHARGE
: REGULATED DISCHARGE VOLUME
DESIGN CAPACITY : 6.81 (1000 M3)

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : MATTAWISHKWIA RIVER
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 5,270

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.37	1.96	2.23	3.90	2.86	3.57	2.95	3.74	3.35	2.40	3.77	1.98	2.92	
LAGOON DISCHARGE	ND	ND	ND	264.41	707.27	ND	ND	ND	70.26	152.54	ND	ND	298.62	
BOD5														
INFLUENT (MG/L)	143.0	ND	120.0	113.0	97.0	70.0	47.0	61.0	60.0	33.0	44.0	82.0	79.1	
EFFLUENT (MG/L)	ND	ND	ND	12.7	15.4	ND	ND	ND	3.8	2.5	ND	ND	8.6	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	49.53	44.04	ND	ND	ND	12.73	6.00	ND	ND	25.11	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	310.0	ND	115.0	150.0	223.0	85.0	39.0	78.0	62.0	97.0	55.0	90.0	118.5	
EFFLUENT (MG/L)	ND	ND	ND	13.3	26.0	ND	ND	ND	10.0	12.3	ND	ND	15.4	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	51.87	74.36	ND	ND	ND	33.50	29.52	ND	ND	44.97	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.9	ND	5.7	2.9	5.7	4.6	4.2	3.4	3.4	2.4	2.8	4.6	4.4	
EFFLUENT (MG/L)	ND	ND	ND	2.5	1.8	ND	ND	ND	1.3	0.7	ND	ND	1.6	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	9.75	5.14	ND	ND	ND	4.35	1.68	ND	ND	4.67	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - HAS NO CRITERIA
SS - HAS NO CRITERIA
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : HORNEPAYNE
PLANT : HORNEPAYNE WPCP
WORKS NUMBER : 110001952
TREATMENT : EXTENDED AERATION
:
:
DESIGN CAPACITY : 1.36 (1000 M3)

REGION : NORTHEAST
DISTRICT : ALGOMA
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : JACKFISH RIVER
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 1,675

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.73	0.72	0.73	1.64	1.24	0.89	0.76	0.91	0.98	0.95	1.15	0.94	0.97	
BOD5														
INFLUENT (MG/L)	91.0	118.0	79.0	42.0	59.0	81.0	54.0	54.0	57.0	50.0	77.0	72.0	69.5	
EFFLUENT (MG/L)	2.6	3.2	4.3	2.2	1.7	2.4	1.6	1.9	1.6	16.0	2.9	2.9	3.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.89	2.30	3.13	3.60	2.10	2.13	1.21	1.72	1.56	15.20	3.33	2.72	3.49	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	94.0	95.0	83.0	68.0	79.0	70.0	66.0	68.0	73.0	67.0	113.0	107.0	81.9	
EFFLUENT (MG/L)	9.2	8.8	9.8	7.7	8.8	5.7	9.4	9.3	8.9	8.0	8.5	8.0	8.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	6.71	6.33	7.15	12.62	10.91	5.07	7.14	8.46	8.72	7.60	9.77	7.52	8.25	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.8	5.6	3.3	2.4	3.8	3.9	4.2	3.9	3.5	3.8	4.8	4.6	4.1	
EFFLUENT (MG/L)	3.0	3.0	2.7	1.2	2.0	2.1	2.8	2.5	2.3	2.2	2.0	2.4	2.4	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	2.19	2.16	1.97	1.96	2.48	1.86	2.12	2.27	2.25	2.09	2.30	2.25	2.33	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : IROQUOIS FALLS
PLANT : IROQUOIS FALLS WPCP
WORKS NUMBER : 110002121
TREATMENT : CONTACT STABILIZATION
:
:
DESIGN CAPACITY : 4.09 (1000 M3)

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : ABITIBI RIVER
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 5,575

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.20	2.07	2.95	7.23	4.18	3.56	3.27	4.22	3.98	3.92	4.72	3.20	3.79	
BOD5														
INFLUENT (MG/L)	46.0	68.0	99.0	20.0	42.0	38.0	13.0	18.0	51.0	54.0	32.0	ND	43.7	
EFFLUENT (MG/L)	25.0	8.8	16.0	19.0	23.0	16.3	12.0	3.0	12.5	12.5	14.0	ND	14.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	55.00	18.21	47.20	137.37	96.14	58.02	39.24	12.66	49.75	49.00	66.08	ND	55.71	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	57.0	71.0	119.0	45.0	40.0	49.0	25.0	32.0	35.0	42.0	34.0	30.0	48.3	
EFFLUENT (MG/L)	13.5	6.3	9.8	11.6	6.0	2.8	3.8	4.1	2.3	3.5	6.0	3.7	6.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	29.70	13.04	28.91	83.86	25.08	9.96	12.42	17.30	9.15	13.72	28.32	11.84	23.12	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.2	3.0	5.3	1.5	2.5	3.1	1.3	1.8	3.4	3.2	2.2	ND	2.8	
EFFLUENT (MG/L)	2.8	4.2	5.4	0.8	1.2	4.0	1.5	4.5	1.8	2.1	0.9	ND	2.7	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	6.16	8.69	15.93	5.78	5.01	14.24	4.90	18.99	7.16	8.23	4.24	ND	10.23	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : IROQUOIS FALLS
PLANT : PORQUIS JUNCTION LAGOON
WORKS NUMBER : 120003290
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: SINGE CELL
:
DESIGN CAPACITY : 0.04 (1000 M3)

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : STATION CR.TO MEADOW CR.
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 176

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.06	0.05	0.08	0.17	0.09	0.07	0.07	0.12	0.09	0.09	0.14	0.08	0.09	
LAGOON DISCHARGE	ND	ND	ND	ND	35.00	ND	ND	ND	ND	ND	10.25	ND	22.63	
BOD5														
INFLUENT (MG/L)	118.0	160.0	102.0	38.0	ND	ND	ND	ND	ND	35.0	117.0	85.0	93.6	
EFFLUENT (MG/L)	ND	ND	ND	ND	11.5	ND	ND	ND	ND	ND	5.2	ND	8.4	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	1.03	ND	ND	ND	ND	ND	0.72	ND	0.76	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	60.0	200.0	260.0	50.0	ND	ND	ND	ND	ND	25.0	85.0	110.0	112.9	
EFFLUENT (MG/L)	ND	ND	ND	ND	28.0	ND	ND	ND	ND	ND	10.5	ND	19.3	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	2.52	ND	ND	ND	ND	ND	1.47	ND	1.74	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.3	9.3	4.7	1.7	ND	ND	ND	ND	ND	25.0	3.4	6.1	8.1	
EFFLUENT (MG/L)	ND	ND	ND	ND	2.1	ND	ND	ND	ND	ND	0.8	ND	1.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	0.18	ND	ND	ND	ND	ND	0.11	ND	0.14	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
M - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

START DATE	END DATE	ANTICIPATED COMPLIANCE

OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : JOGUES
PLANT : JOGUES LAGOON
WORKS NUMBER : 120002022
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 27.72 (1000 M3)

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : PRUNE CREEK
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 215

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	108.0	110.0	54.0	22.0	42.0	85.0	110.0	280.0	220.0	165.0	155.0	ND	122.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	75.0	170.0	40.0	95.0	50.0	60.0	55.0	130.0	100.0	85.0	90.0	ND	86.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	12.0	15.0	12.0	37.0	42.0	72.0	61.0	16.0	9.5	8.8	7.8	ND	26.6	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	NO DISCHARGE
SS	25.0 MG/L	NO DISCHARGE
TP	1.0 MG/L	NO DISCHARGE

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : KAPUSKASING
PLANT : BRUNETVILLE LAGOON
WORKS NUMBER : 120003012
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 2.06 (1000 M3)

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : O'BRIEN CREEK
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,100

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	1.34	ND	ND	0.54	1.31	ND	ND	ND	ND	1.06	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	ND	ND	378.0	ND	ND	210.0	40.0	ND	ND	ND	ND	209.3	
EFFLUENT (MG/L)	ND	ND	ND	35.8	ND	ND	44.5	23.9	ND	ND	ND	ND	34.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	47.97	ND	ND	24.03	31.30	ND	ND	ND	ND	36.78	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	151.0	ND	ND	350.0	45.0	ND	ND	ND	ND	182.0	
EFFLUENT (MG/L)	ND	ND	ND	63.5	ND	ND	55.0	50.0	ND	ND	ND	ND	56.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	85.09	ND	ND	29.70	65.50	ND	ND	ND	ND	59.57	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	3.2	ND	ND	9.6	4.0	ND	ND	ND	ND	5.6	
EFFLUENT (MG/L)	ND	ND	ND	4.1	ND	ND	1.3	2.2	ND	ND	ND	ND	2.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	5.49	ND	ND	0.70	2.88	ND	ND	ND	ND	2.65	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	INSUFFICIENT DATA
SS	25.0 MG/L	INSUFFICIENT DATA
TP	1.0 MG/L	INSUFFICIENT DATA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - PHASING OUT EXISTING FACILITY	1987/06	1988/12	1988/12

MUNICIPALITY : KAPUSKASING
PLANT : KAPUSKASING WEST END WPCP
WORKS NUMBER : 120002059
TREATMENT : EXTENDED AERATION

DESIGN CAPACITY : 0.68 (1000 M3)

1988 EFFLUENT GUIDELINES ASSESSMENT

REGION :
DISTRICT : NORTHEAST
OPERATING AUTHORITY : COCHRANE
WATERCOURSE : MUNICIPAL
MINOR BASIN : KAPUSKASING RIVER
MAJOR BASIN : JAMES BAY
POPULATION SERVED : ARCTIC WATERSHED

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	NA	NO DISCHARGE
SS	NA	NO DISCHARGE
TP	NA	NO DISCHARGE

NOTE:
BOD - HAS NO CRITERIA
SS - HAS NO CRITERIA
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

MINISTRY TO OPERATE IN 1989

START DATE	END DATE	ANTICIPATED COMPLIANCE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : KAPUSKASING
PLANT : KAPUSKASING WPCP
WORKS NUMBER : 110003004
TREATMENT : EXTENDED AERATION
DESIGN CAPACITY : 9.09 (1000 M3)

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : KAPUSKASING RIVER
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 12,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.78	4.32	5.83	12.12	8.44	6.08	4.74	8.28	6.59	6.84	10.02	6.20	6.94	
BOD5														
INFLUENT (MG/L)	105.0	81.0	63.0	35.0	45.0	54.0	60.0	65.0	175.0	108.0	65.0	65.0	76.8	
EFFLUENT (MG/L)	3.7	2.0	2.0	3.4	2.3	0.6	1.1	3.5	3.8	1.6	5.5	3.8	2.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	13.98	8.64	11.66	41.20	19.41	3.64	5.21	28.98	25.04	10.94	55.11	23.56	19.43	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	150.0	308.0	197.0	70.0	74.0	201.0	94.0	141.0	113.0	205.0	96.0	138.0	148.9	
EFFLUENT (MG/L)	6.6	6.5	5.4	10.3	8.7	7.0	18.8	8.0	4.7	1.8	6.0	8.8	7.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	24.94	28.08	31.48	124.83	73.42	42.56	89.11	66.24	30.97	12.31	60.12	54.56	53.44	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.4	4.2	3.3	2.3	3.2	4.4	4.1	8.2	6.5	6.0	3.1	4.0	4.6	
EFFLUENT (MG/L)	2.5	2.6	3.2	0.6	1.2	1.5	3.2	1.8	2.1	1.4	1.3	1.4	1.9	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	9.45	11.23	18.65	7.27	10.12	9.12	15.16	14.90	13.83	9.57	13.02	8.68	13.19	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : KIRKLAND LAKE
PLANT : KIRKLAND LAKE WPCP
WORKS NUMBER : 120000015
TREATMENT : CONTACT STABILIZATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 13.63 (1000 M3)

REGION : NORTHEAST
DISTRICT : TIMISKAMING
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : MURDOCK CREEK
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 12,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	10.63	13.73	13.36	22.10	11.05	7.95	8.29	10.15	9.80	10.52	14.60	11.97	12.01	
BOD5														
INFLUENT (MG/L)	42.0	42.0	36.0	26.0	28.0	92.0	51.0	22.0	48.0	40.0	59.0	51.0	44.8	
EFFLUENT (MG/L)	5.3	3.8	9.3	9.2	6.2	14.3	6.4	5.1	8.9	13.9	8.0	11.5	8.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	56.33	52.17	124.24	203.32	68.51	113.68	53.05	51.76	87.22	146.22	116.80	137.65	102.09	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	51.0	54.0	51.0	36.0	51.0	106.0	68.0	56.0	88.0	55.0	74.0	56.0	62.2	
EFFLUENT (MG/L)	8.5	7.6	15.4	13.5	14.8	10.1	8.9	6.7	10.9	10.3	15.0	14.9	11.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	90.35	104.34	205.74	298.35	163.54	80.29	73.78	68.00	106.82	108.35	219.00	178.35	136.91	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.3	2.6	2.4	1.5	2.4	4.7	2.9	2.8	3.3	3.0	3.9	2.9	2.9	
EFFLUENT (MG/L)	0.4	0.5	0.7	0.5	0.8	0.8	0.6	0.6	1.1*	0.5	0.6	0.7	0.7	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	4.25	6.86	9.35	11.05	8.84	6.36	4.97	6.09	10.78	5.26	8.76	8.37	8.41	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

START DATE	END DATE	ANTICIPATED COMPLIANCE

NO ACTION - MARGINAL FAILURE-MONITORING LEVEL OF FAILED PARAMETER CLOSELY

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : KIRKLAND LAKE
PLANT : SWASTIKA WPCP
WORKS NUMBER : 120001942
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
:
:
DESIGN CAPACITY : 0.39 (1000 M3)

REGION : NORTHEAST
DISTRICT : TIMISKAMING
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : OTTO LAKE
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 700

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	29.0	44.0	50.0	23.0	12.0	30.0	78.0	86.0	64.0	52.0	34.0	50.0	46.0	
EFFLUENT (MG/L)	4.0	3.2	5.1	23.0	2.2	2.0	4.0	1.2	2.6	1.8	1.8	2.0	4.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	40.0	35.0	55.0	30.0	25.0	40.0	70.0	100.0	70.0	35.0	65.0	55.0	51.7	
EFFLUENT (MG/L)	20.0	20.0	15.0	20.0	10.0	10.0	15.0	15.0	10.0	10.0	15.0	15.0	14.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.5	2.5	1.9	2.0	2.5	2.4	6.1	4.9	4.2	3.1	2.1	4.3	3.2	
EFFLUENT (MG/L)	1.0	1.0	0.8	0.9	0.7	0.7	0.9	0.7	0.8	0.7	ND	0.6	0.8	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : LARDER LAKE
PLANT : LARDER LAKE TOWNSITE WPCP
WORKS NUMBER : 120000033
TREATMENT : EXFILTRATION LAGOON
:
:
DESIGN CAPACITY : 0.59 (1000 M3)

REGION : NORTHEAST
DISTRICT : TIMISKAMING
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : LARDER LAKE
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,100

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	52.0	88.0	225.0	30.0	49.0	82.0	46.0	26.0	ND	ND	38.0	88.0	72.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	70.0	110.0	120.0	45.0	55.0	120.0	55.0	35.0	ND	ND	50.0	100.0	76.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.2	4.6	6.5	0.9	3.5	5.6	3.6	2.2	ND	ND	2.0	4.3	3.6	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	NA	NO DIRECT DISCHARGE
SS	NA	NO DIRECT DISCHARGE
TP	NA	NO DIRECT DISCHARGE

NOTE:
BOD - HAS NO CRITERIA
SS - HAS NO CRITERIA
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : LATCHFORD
PLANT : LATCHFORD WPCP
WORKS NUMBER : 110001774
TREATMENT : EXTENDED AERATION
:
:
DESIGN CAPACITY : 0.34 (1000 M3)

REGION : NORTHEAST
DISTRICT : TIMISKAMING
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : MONTREAL RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 427

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.34	0.38	0.60	0.85	0.39	0.39	0.27	0.30	0.26	0.34	0.37	0.39	0.41	
BOD5														
INFLUENT (MG/L)	10.0	15.0	24.0	27.0	46.0	32.0	78.0	36.0	43.0	46.0	72.0	6.0	36.3	
EFFLUENT (MG/L)	1.0	4.3	4.9	15.0	4.9	5.0	3.4	2.9	3.1	5.3	4.6	0.9	4.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.34	1.63	2.94	12.75	1.91	1.95	0.91	0.87	0.80	1.80	1.70	0.35	1.89	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	35.0	125.0	45.0	50.0	50.0	85.0	50.0	52.0	70.0	173.0	20.0	68.6	
EFFLUENT (MG/L)	14.7	11.5	24.7	36.0	19.5	13.6	12.8	15.0	15.5	17.5	18.5	10.6	17.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	4.99	4.37	14.82	30.60	7.60	5.30	3.45	4.50	4.03	5.95	6.84	4.13	7.18	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	1.0	1.5	1.6	1.8	3.4	3.5	3.1	2.3	29.0	4.5	0.6	4.8	
EFFLUENT (MG/L)	ND	0.3	0.8	1.5	0.7	0.9	0.8	1.4	1.1	1.4	1.1		0.9	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	0.11	0.48	1.27	0.27	0.35	0.21	0.42	0.28	0.47	0.40		0.37	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : LITTLE CURRENT
PLANT : LITTLE CURRENT LAGOON
WORKS NUMBER : 110000392
TREATMENT : CONVENTIONAL LAGOON SEASONAL
:
:
DESIGN CAPACITY : 0.92 (1000 M3)

REGION : NORTHEAST
DISTRICT : MANITOULIN
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : DITCH TO GEORGIAN BAY
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.99	1.29	1.47	1.61	0.99	0.73	0.73	0.76	0.71	1.07	1.29	0.90	1.05	
LAGOON DISCHARGE	ND	ND	ND	ND	165.60	ND	ND	ND	ND	ND	189.90	ND	177.75	
BOD5														
INFLUENT (MG/L)	79.0	21.0	31.0	18.0	80.0	ND	12.0	52.0	94.0	ND	70.0	18.0	47.5	
EFFLUENT (MG/L)	ND	ND	ND	ND	7.8	ND	ND	ND	ND	ND	7.3	ND	7.6	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	7.72	ND	ND	ND	ND	ND	9.41	ND	7.98	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	95.0	35.0	40.0	30.0	70.0	ND	15.0	65.0	70.0	ND	55.0	25.0	50.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	17.5	ND	ND	ND	ND	ND	14.0	ND	15.8	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	17.32	ND	ND	ND	ND	ND	18.06	ND	16.59	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	23.0	1.5	2.0	1.8	5.1	ND	0.2	5.6	4.8	ND	3.7	1.5	4.9	
EFFLUENT (MG/L)	ND	ND	ND	ND	1.3	ND	ND	ND	ND	ND	2.2	ND	1.8	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	1.28	ND	ND	ND	ND	ND	2.83	ND	1.89	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MATTAWA
PLANT : MATTAWA LAGOON
WORKS NUMBER : 110000436
TREATMENT : EXFILTRATION LAGOON
:
:
DESIGN CAPACITY : 1.09 (1000 M3)

REGION : NORTHEAST
DISTRICT : NIPPISSING
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : MATTAWA RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,686

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.29	0.28	0.33	0.40	0.32	0.28	0.27	0.31	0.36	0.49	0.53	0.41	0.36	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	23.00	ND	ND	ND	ND	ND	23.00	
BOD5														
INFLUENT (MG/L)	26.0	ND	ND	80.0	100.0	185.0	130.0	ND	12.0	ND	ND	ND	88.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	10.3	ND	ND	ND	ND	ND	10.3	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	2.78	ND	ND	ND	ND	ND	3.71	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	30.0	ND	ND	75.0	50.0	40.0	60.0	ND	25.0	ND	ND	ND	46.7	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	27.5	ND	ND	ND	ND	ND	27.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	7.42	ND	ND	ND	ND	ND	9.90	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.3	ND	ND	4.4	5.7	3.9	5.6	ND	3.0	ND	ND	ND	4.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	3.2	ND	ND	ND	ND	ND	3.2	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	0.86	ND	ND	ND	ND	ND	1.15	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	NA	NO DIRECT DISCHARGE
SS	NA	NO DIRECT DISCHARGE
TP	NA	NO DIRECT DISCHARGE

NOTE:
BOD - HAS NO CRITERIA
SS - HAS NO CRITERIA
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE		1988/08	
FACILTY EXPANSION/UPGRADING - CONSTRUCTION COMPLETE		1988/07	

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MATTICE-VAL COTE
PLANT : MATTICE LAGOON
WORKS NUMBER : 120001791
TREATMENT : CONVENTIONAL LAGOON SEASONAL
:
:
DESIGN CAPACITY : 0.58 (1000 M3)

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : MISSINABI LAKE
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 400

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.24	0.24	0.34	0.72	0.52	0.47	0.42	1.03	0.77	0.57	0.49	0.29	0.51	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	90.90	ND	ND	90.90	
BOD5														
INFLUENT (MG/L)	80.0	ND	ND	ND	11.0	ND	ND	ND	ND	46.0	ND	ND	45.7	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.3	ND	ND	15.3	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.72	ND	ND	7.80	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	60.0	ND	ND	ND	37.0	ND	ND	ND	ND	60.0	ND	ND	52.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	26.7	ND	ND	26.7	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.21	ND	ND	13.62	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.6	ND	ND	ND	2.3	ND	ND	ND	ND	3.4	ND	ND	3.1	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.8	ND	ND	1.8	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.02	ND	ND	0.92	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MCGARRY
PLANT : VIRGINIATOWN AND KEARNS WPCP
WORKS NUMBER : 120000024
TREATMENT : COMMUNAL SEPTIC TANK
DESIGN CAPACITY : 0.72 (1000 M3)

REGION : NORTHEAST
DISTRICT : TIMISKAMING
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : TAILING PD TO LARDER L.
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	58.0	17.0	14.0	21.0	16.0	19.0	34.0	18.0	20.0	44.0	13.0	48.0	26.8	
EFFLUENT (MG/L)	30.0	22.0	26.0	24.0	14.0	9.5	26.0	30.0	18.0	15.0	15.0	24.0	21.1	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
PERCENT REMOVAL	48	ND	ND	ND	13	50	24	ND	10	66	ND	50	21*	
PERCENT REMOVAL LIMITS													30	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	100.0	25.0	25.0	30.0	30.0	30.0	35.0	55.0	30.0	55.0	25.0	50.0	40.8	
EFFLUENT (MG/L)	35.0	35.0	50.0	300.0	20.0	20.0	25.0	40.0	25.0	25.0	25.0	25.0	52.1	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
PERCENT REMOVAL	65	ND			33	33	29	27	17	55		50	0*	
PERCENT REMOVAL LIMITS													50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	1.9	1.4	1.3	1.2	1.2	2.4	1.8	2.8	1.1	1.4	1.3	2.6	1.7	
EFFLUENT (MG/L)	2.0	1.3	1.9	0.7	1.5	1.5	2.2	2.7	1.2	1.5	1.1	1.3	1.6	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30%	NO
SS	50%	NO
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MICHIPICOTEN
PLANT : WAWA LAGOON
WORKS NUMBER : 110000454
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 1.81 (1000 M3)

REGION : NORTHEAST
DISTRICT : ALGOMA
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : MAGPIE RIVER
MINOR BASIN : SUPERIOR
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,800

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	2.24	2.03	2.19	2.64	2.29	2.25	3.68	ND	2.47	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	81.89	68.70	69.62	110.50	ND	82.68	
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	82.0	215.0	ND	ND	116.0	98.0	52.0	ND	112.6	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	0.4	3.5	2.0	2.5	ND	2.1	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	1.05	8.01	4.50	9.20	ND	5.19	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	400.0	ND	ND	110.0	65.0	60.0	ND	158.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	1.0	4.0	1.0	2.0	ND	2.0	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	2.64	9.16	2.25	7.36	ND	4.94	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	5.7	8.0	ND	ND	4.6	5.5	2.8	ND	5.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND		0.5	0.4	0.6	ND	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND		1.14	0.90	2.20	ND	0.99	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MOONBEAM
PLANT : MOONBEAM LAGOON
WORKS NUMBER : 110000230
TREATMENT : CONVENTIONAL LAGOON SEASONAL
:
:
DESIGN CAPACITY : 0.65 (1000 M3)

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : CREEK SYS TO GROUNDHOG R
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 1,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LAGOON DISCHARGE	ND	ND	ND	ND	52.60	ND	ND	ND	ND	52.60	ND	ND	52.60	
BOD5														
INFLUENT (MG/L)	ND	240.0	128.0	100.0	380.0	108.0	84.0	170.0	ND	130.0	102.0	200.0	164.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	24.7	ND	ND	ND	ND	3.1	ND	ND	13.9	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	390.0	140.0	75.0	850.0	140.0	110.0	210.0	ND	450.0	140.0	500.0	300.5	
EFFLUENT (MG/L)	ND	ND	ND	ND	63.3	ND	ND	ND	ND	14.3	ND	ND	38.8	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	9.3	6.9	3.1	7.9	1.8	5.5	7.2	ND	3.2	1.8	3.5	5.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	2.5	ND	ND	ND	ND	2.8	ND	ND	2.7	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

MUNICIPALITY : MOOSONEE D.A.B.
PLANT : MOOSONEE WPCP (NORTH)
WORKS NUMBER : 120000319
TREATMENT : EXTENDED AERATION

DESIGN CAPACITY : 0.25 (1000 M3)

1988 EFFLUENT GUIDELINES ASSESSMENT

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : MOOSE RIVER
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 300

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.30	0.31	0.29	0.28	0.23	0.17	0.21	0.14	0.15	0.16	0.19	0.23	0.22	
BOD5														
INFLUENT (MG/L)	56.0	24.7	ND	ND	ND	ND	ND	21.0	44.0	50.0	53.0	59.0	44.0	
EFFLUENT (MG/L)	3.1	11.8	ND	ND	ND	ND	ND	ND	4.2	20.1	7.3	13.3	10.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.93	3.65	ND	ND	ND	ND	ND	ND	0.63	3.21	1.38	3.05	2.20	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	125.0	31.7	ND	ND	ND	ND	ND	67.0	69.3	143.0	183.0	156.0	110.7	
EFFLUENT (MG/L)	ND	23.6	ND	ND	ND	ND	ND	ND	21.5	22.6	ND	32.8	25.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	7.31	ND	ND	ND	ND	ND	ND	3.22	3.61	ND	7.54	5.52	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.5	1.4	ND	ND	ND	ND	ND	0.9	2.4	3.3	2.7	3.9	2.4	
EFFLUENT (MG/L)	0.2	0.5	ND	ND	ND	ND	ND	ND	ND	0.5	0.6	0.8	0.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.06	0.15	ND	ND	ND	ND	ND	ND	ND	0.08	0.11	0.18	0.11	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	INSUFFICIENT DATA
SS	25.0 MG/L	INSUFFICIENT DATA
TP	NA	INSUFFICIENT DATA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MOOSONEE D.A.B.
PLANT : MOOSONEE WPCP (OLD TOWNSITE)
WORKS NUMBER : 110001060
TREATMENT : CONTACT STABILIZATION
:
:
DESIGN CAPACITY : 0.50 (1000 M3)

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : STORE CK TO MOOSE RIVER
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 1,200

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.50	0.51	0.51	0.73	0.53	0.43	0.48	0.62	0.66	0.61	0.80	0.55	0.58	
BOD5														
INFLUENT (MG/L)	178.0	199.0	ND	ND	89.0	ND	ND	55.0	276.0	171.0	106.0	72.0	143.3	
EFFLUENT (MG/L)	3.1	12.1	ND	ND	12.0	ND	ND	70.0	37.0	28.4	38.7	26.5	28.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.55	6.17	ND	ND	6.36	ND	ND	43.40	24.42	17.32	30.96	14.57	16.53	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	156.0	222.0	ND	ND	99.0	ND	ND	224.0	386.0	314.0	81.0	92.0	196.8	
EFFLUENT (MG/L)	ND	7.1	ND	ND	14.9	ND	ND	39.3	55.7	21.9	36.6	59.6	33.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	3.62	ND	ND	7.89	ND	ND	24.36	36.76	13.35	29.28	32.78	19.49	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.8	7.0	ND	ND	4.0	ND	ND	4.3	5.7	4.6	4.9	2.7	4.8	
EFFLUENT (MG/L)	1.7	1.4	ND	ND	0.9	ND	ND	2.1	1.0	0.6	1.1	1.3	1.3	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.85	0.71	ND	ND	0.47	ND	ND	1.30	0.66	0.36	0.88	0.71	0.75	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	INSUFFICIENT DATA
SS	25.0 MG/L	INSUFFICIENT DATA
TP	NA	INSUFFICIENT DATA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE			

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NEW LISKEARD
PLANT : NEW LISKEARD LAGOON
WORKS NUMBER : 110000515
TREATMENT : AERATED CELL PLUS LAGOON
: CONTINUOUS DISCHARGE
:
DESIGN CAPACITY : 5.50 (1000 M3)

REGION : NORTHEAST
DISTRICT : TIMISKAMING
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : WABI RIVER
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 5,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.10	3.09	3.99	8.65	4.63	3.85	3.53	4.53	4.13	5.30	6.05	3.82	4.56	
LAGOON DISCHARGE	96.00	89.56	123.57	259.35	143.60	115.52	109.36	140.38	123.90	164.24	181.44	118.27	138.77	
BOD5														
INFLUENT (MG/L)	115.0	99.0	103.0	39.0	63.0	75.0	113.0	52.0	75.0	56.0	37.0	97.0	77.0	
EFFLUENT (MG/L)	7.4	7.0	10.1	5.0	24.0	6.0	2.5	3.8	1.0	1.9	4.1	5.5	6.5	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	22.94	21.63	40.29	43.25	111.12	23.10	8.82	17.21	4.13	10.07	24.80	21.01	29.64	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	130.0	117.0	112.0	51.0	72.0	97.0	88.0	54.0	94.0	75.0	60.0	149.0	91.6	
EFFLUENT (MG/L)	5.5	4.0	5.0	5.0	25.0	6.5	1.0	1.0	1.5	3.5	15.0	10.0	6.9	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	17.05	12.36	19.95	43.25	115.75	25.02	3.53	4.53	6.19	18.55	90.75	38.20	31.46	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.9	5.4	5.4	2.1	4.3	5.7	6.2	3.8	4.1	3.9	2.0	6.1	4.6	
EFFLUENT (MG/L)	0.9	0.7	0.9	0.3	0.9	0.3	0.3	0.5	0.3	0.2	0.4	0.2	0.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	2.79	2.16	3.59	2.59	4.16	1.15	1.05	2.26	1.23	1.06	2.42	0.76	2.28	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NICKEL CENTRE
PLANT : CONISTON WPCP
WORKS NUMBER : 110000123
TREATMENT : OXIDATION DITCH
: CONVENTIONAL ACTIVATED SLUDGE
:
DESIGN CAPACITY : 1.60 (1000 M3)

REGION : NORTHEAST
DISTRICT : SUDBURY, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : CONISTON CREEK
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,790

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.46	1.63	1.97	2.81	1.96	1.36	1.20	1.36	1.36	1.92	2.19	1.57	1.73	
BOD5														
INFLUENT (MG/L)	94.0	115.0	81.0	47.0	74.0	78.0	147.0	92.0	72.0	68.0	62.0	94.0	85.3	
EFFLUENT (MG/L)	22.5	15.0	18.7	17.0	6.1	2.8	2.6	3.2	21.2	7.2	9.2	16.0	11.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	32.85	24.45	36.83	47.77	11.95	3.80	3.12	4.35	28.83	13.82	20.14	25.12	20.41	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	152.0	117.0	150.0	57.0	78.0	117.0	189.0	100.0	91.0	64.0	58.0	93.0	105.5	
EFFLUENT (MG/L)	11.5	8.5	8.6	11.2	8.1	4.6	5.4	4.0	7.0	10.4	5.8	6.0	7.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	16.79	13.85	16.94	31.47	15.87	6.25	6.48	5.44	9.52	19.96	12.70	9.42	13.15	
TOTAL PHOSPHORUS														
INFLUENT (MG/L)	3.4	4.4	3.9	2.6	3.5	4.0	7.4	5.2	4.0	2.9	3.3	5.0	4.1	
EFFLUENT (MG/L)	6.7	2.7	2.6	1.1	2.1	2.9	3.5	2.8	2.1	0.9	1.5	2.3	2.6	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	9.78	4.40	5.12	3.09	4.11	3.94	4.20	3.80	2.85	1.72	3.28	3.61	4.50	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NICKEL CENTRE
PLANT : FALCONBRIDGE TOWNSITE WPCP
WORKS NUMBER : 120001158
TREATMENT : TRICKLING FILTER
:
:
DESIGN CAPACITY : 0.91 (1000 M3)

REGION : NORTHEAST
DISTRICT : SUDBURY, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : FALCON.WTP TO CONISTON C
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 836

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.54	0.60	0.64	0.73	ND	0.60	0.63	0.68	0.61	0.53	ND	0.59	0.62	
BOD5														
INFLUENT (MG/L)	94.0	93.0	76.0	123.0	86.0	36.0	42.0	46.0	76.0	101.0	105.0	114.0	82.7	
EFFLUENT (MG/L)	26.0	37.5	24.0	31.0	32.5	15.0	20.5	19.0	21.0	24.0	38.0	47.0	28.0*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	14.04	22.50	15.36	22.63	ND	9.00	12.91	12.92	12.81	12.72	ND	27.73	17.36	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	143.0	100.0	92.0	106.0	101.0	83.0	64.0	78.0	104.0	147.0	129.0	155.0	108.5	
EFFLUENT (MG/L)	26.0	33.8	37.5	38.0	51.6	52.0	45.6	ND	37.3	41.3	47.1	38.0	40.7*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	14.04	20.28	24.00	27.74	ND	31.20	28.72	ND	22.75	21.88	ND	22.42	25.23	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.0	4.4	3.3	7.8	5.7	4.9	4.1	3.7	4.5	4.6	9.7	4.4	5.1	
EFFLUENT (MG/L)	2.9	3.1	2.6	3.2	3.4	2.6	2.5	3.1	3.2	2.9	4.1	2.5	3.0	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	1.56	1.86	1.66	2.33	ND	1.56	1.57	2.10	1.95	1.53	ND	1.47	1.86	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	NO
SS	25.0 MG/L	NO
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - PROCESS CONTROL BEING UPGRADED			1989/12

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NICKEL CENTRE
PLANT : GARSON LAGOON (STANDBY)
WORKS NUMBER : 120004887
TREATMENT : CONVENTIONAL LAGOON SEASONAL
DESIGN CAPACITY : 3.45 (1000 M3)

REGION : NORTHEAST
DISTRICT : SUDBURY, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : FLOW TO SUDBURY WPCP
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 4,107

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	0.79	0.58	0.65	ND	ND	ND	ND	ND	ND	0.67	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	ND	ND	96.0	ND	46.0	ND	ND	ND	ND	ND	ND	71.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	2.1	ND	1.8	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.21	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	120.0	ND	60.0	ND	ND	ND	ND	ND	ND	90.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5	1.0	ND	1.3	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.87	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	5.8	ND	3.0	ND	ND	ND	ND	ND	ND	4.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2	3.4	ND	2.3	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.54	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NICKEL CENTRE
PLANT : WAHNAPITAE LAGOON
WORKS NUMBER : 120003156
TREATMENT : CONVENTIONAL LAGOON SEASONAL
:
:
DESIGN CAPACITY : 1.33 (1000 M3)

REGION : NORTHEAST
DISTRICT : SUDBURY, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : WANAPITEI RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 958

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.61	0.45	1.30	2.08	0.76	0.60	0.48	0.74	0.90	0.86	1.12	ND	0.90	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	ND	ND	26.0	ND	18.0	ND	ND	ND	ND	ND	ND	22.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0	ND	ND	1.0	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.86	ND	ND	0.90	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	110.0	ND	20.0	ND	ND	ND	ND	ND	ND	65.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0	ND	ND	2.0	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.72	ND	ND	1.80	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	1.2	ND	1.5	ND	ND	ND	ND	ND	ND	1.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NORTH BAY
PLANT : NORTH BAY WPCP
WORKS NUMBER : 110000533
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 36.36 (1000 M3)

REGION : NORTHEAST
DISTRICT : NIPPISSING
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : LAKE NIPISSING
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 48,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	21.33	29.65	35.38	47.78	29.28	23.69	20.95	28.95	21.80	24.05	23.50	18.18	27.05	
BOD5														
INFLUENT (MG/L)	200.0	109.0	127.0	91.0	129.0	183.0	190.0	200.0	121.0	135.0	125.0	127.0	144.8	
EFFLUENT (MG/L)	15.3	8.5	9.4	7.2	4.5	7.2	6.0	11.1	3.7	7.1	6.5	4.6	7.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	326.34	252.02	332.57	344.01	131.76	170.56	125.70	321.34	80.66	170.75	152.75	83.62	205.58	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	602.0	356.0	440.0	278.0	313.0	422.0	366.0	327.0	330.0	299.0	241.0	243.0	351.4	
EFFLUENT (MG/L)	12.4	10.5	11.2	7.6	5.5	9.7	7.3	6.6	6.3	7.9	8.1	8.1	8.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	264.49	311.32	396.25	363.12	161.04	229.79	152.93	191.07	137.34	189.99	190.35	147.25	227.22	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	18.2	14.5	15.0	13.9	10.0	15.5	9.8	7.3	8.1	7.8	6.6	10.1	11.4	
EFFLUENT (MG/L)	0.9	0.5	0.7	0.7	0.8	0.8	0.7	0.6	0.6	0.6	0.9	1.1*	0.7	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	19.19	14.82	24.76	33.44	23.42	18.95	14.66	17.37	13.08	14.43	21.15	19.99	18.94	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - MONITORING PROCEDURES BEING UPGRADED		
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED		

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NORTH HIMSWORTH
PLANT : CALLANDER LAGOON
WORKS NUMBER : 110001747
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 0.47 (1000 M3)

REGION : NORTHEAST
DISTRICT : PARRY SOUND
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : DITCH TO CALLANDER BAY
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,220

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.63	0.58	0.69	0.82	0.60	0.90	0.60	0.50	0.58	0.58	0.93	0.71	0.68	
LAGOON DISCHARGE	ND	ND	ND	ND	18.60	81.90	ND	ND	ND	82.87	ND	ND	61.12	
BOD5														
INFLUENT (MG/L)	111.0	106.0	97.0	63.0	59.0	79.0	81.0	39.0	73.0	62.0	70.0	89.0	77.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	5.7	ND	ND	ND	4.6	ND	ND	5.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	5.13	ND	ND	ND	2.66	ND	ND	3.54	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	140.0	165.0	130.0	88.0	70.0	105.0	87.0	37.0	68.0	72.0	90.0	95.0	95.6	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	15.0	ND	ND	ND	8.8	ND	ND	11.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	13.50	ND	ND	ND	5.10	ND	ND	8.09	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.5	6.0	5.1	4.0	4.2	4.9	6.3	3.1	4.3	4.3	3.6	4.6	4.7	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	0.5	ND	ND	ND	0.3	ND	ND	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	0.45	ND	ND	ND	0.17	ND	ND	0.27	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - CONSTRUCTION INITIATED	1988/07		

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ONAPING FALLS
PLANT : DOWLING WPCP
WORKS NUMBER : 110003077
TREATMENT : EXTENDED AERATION
:
:
DESIGN CAPACITY : 2.08 (1000 M3)

REGION : NORTHEAST
DISTRICT : SUDBURY, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : ONAPING RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,090

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.67	1.75	1.92	2.90	2.35	2.05	1.84	1.84	1.83	ND	2.32	2.33	2.07	
BOD5														
INFLUENT (MG/L)	54.0	47.0	41.0	22.0	26.0	30.0	23.0	24.0	65.0	ND	37.0	41.0	37.3	
EFFLUENT (MG/L)	6.8	8.1	7.2	7.7	5.2	1.6	1.7	1.9	15.8	ND	7.1	4.1	6.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	11.35	14.17	13.82	22.33	12.22	3.28	3.12	3.49	28.91	ND	16.47	9.55	12.63	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	51.0	35.0	39.0	42.0	32.0	47.0	29.0	31.0	50.0	ND	34.0	25.0	37.7	
EFFLUENT (MG/L)	7.9	6.0	7.3	8.1	3.5	2.3	2.1	3.3	6.0	ND	3.4	2.7	4.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	13.19	10.50	14.01	23.49	8.22	4.71	3.86	6.07	10.98	ND	7.88	6.29	9.94	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	2.7	2.5	2.2	1.5	2.4	2.8	2.2	2.2	3.2	ND	2.3	2.0	2.4	
EFFLUENT (MG/L)	1.5	1.5	1.4	0.8	1.2	1.2	0.7	1.3	3.0	ND	1.1	1.0	1.3	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	2.50	2.62	2.68	2.32	2.82	2.46	1.28	2.39	5.49	ND	2.55	2.33	2.69	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW			1990/12

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ONAPING FALLS
PLANT : LEVACK WPCP
WORKS NUMBER : 120001194
TREATMENT : EXTENDED AERATION
:
:
DESIGN CAPACITY : 1.58 (1000 M3)

REGION : NORTHEAST
DISTRICT : SUDBURY, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : ONAPING RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,008

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.42	1.46	1.54	2.07	[illegible]	1.09	0.94	1.16	1.20	1.38	1.54	1.44	1.39	
BOD5														
INFLUENT (MG/L)	78.0	84.0	84.0	42.0	68.0	77.0	112.0	127.0	92.0	54.0	65.0	134.0	84.3	
EFFLUENT (MG/L)	29.9	12.0	7.1	4.8	5.5	1.6	3.6	1.3	2.9	2.3	2.7	5.1	6.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	42.45	17.52	10.93	9.93	7.81	1.74	3.38	1.50	3.48	3.17	4.15	7.34	9.17	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	103.0	43.0	84.0	79.0	42.0	137.0	138.0	87.0	111.0	107.0	45.0	55.0	85.9	
EFFLUENT (MG/L)	11.1	5.0	6.8	7.5	2.7	2.3	6.7	2.3	5.1	4.7	2.8	4.1	5.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	15.76	7.30	10.47	15.52	3.83	2.50	6.29	2.66	6.12	6.48	4.31	5.90	7.09	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.1	3.3	4.1	2.5	2.4	5.8	6.0	7.5	4.4	3.3	3.5	5.0	4.3	
EFFLUENT (MG/L)	2.7	3.0	2.6	0.8	2.2	3.0	3.0	2.5	2.6	1.9	0.9	1.2	2.2	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	3.83	4.38	4.00	1.65	3.12	3.27	2.82	2.90	3.12	2.62	1.38	1.72	3.06	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - FINAL DESIGN PHASE			1990/12

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ONAPING FALLS
PLANT : ONAPING WPCP
WORKS NUMBER : 1200011149
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
:
:
DESIGN CAPACITY : 0.68 (1000 M3)

REGION : NORTHEAST
DISTRICT : SUDBURY, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : SWAMP TO ONAPING RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 964

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.55	0.54	0.54	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	
BOD5														
INFLUENT (MG/L)	99.0	48.0	82.0	63.0	118.0	46.0	60.0	53.0	57.0	73.0	80.0	137.0	76.3	
EFFLUENT (MG/L)	10.0	3.6	16.0	4.0	8.9	5.5	18.0	7.3	3.6	18.0	6.5	15.5	9.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	5.50	1.94	8.64	2.20	4.89	3.02	9.90	4.01	1.98	9.90	3.57	8.52	5.34	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	103.0	92.0	105.0	84.0	100.0	125.0	87.0	104.0	111.0	100.0	83.0	92.0	98.8	
EFFLUENT (MG/L)	9.9	4.3	7.7	6.6	3.9	7.7	14.0	9.9	12.6	7.4	7.5	4.9	8.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	5.44	2.32	4.15	3.63	2.14	4.23	7.70	5.44	6.93	4.07	4.12	2.69	4.40	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.2	3.8	4.4	5.4	4.4	4.2	4.4	5.0	4.4	4.2	5.1	7.0	4.8	
EFFLUENT (MG/L)	3.8	2.6	3.8	2.6	4.3	4.0	3.6	3.2	2.7	3.8	3.6	3.9	3.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	2.09	1.40	2.05	1.43	2.36	2.20	1.98	1.76	1.48	2.09	1.98	2.14	1.93	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - PHASING OUT EXISTING FACILITY			

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : OPASATIKA
PLANT : OPASATIKA LAGOON
WORKS NUMBER : 120000658
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 1.81 (1000 M3)

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : OPASATIKA RIVER
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 600

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.05	0.05	0.08	0.12	0.10	0.08	0.08	0.08	0.07	0.12	0.10	0.07	0.08	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.0	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	NO DISCHARGE
SS	25.0 MG/L	NO DISCHARGE
TP	NA	NO DISCHARGE

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PARRY SOUND
PLANT : PARRY SOUND WPCP
WORKS NUMBER : 110000560
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 6.59 (1000 M3)

REGION : NORTHEAST
DISTRICT : PARRY SOUND
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : MC CURRY LAKE
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 5,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	6.94	6.71	8.23	11.54	8.56	6.90	6.78	8.14	7.36	10.28	11.39	7.43	8.36	
BOD5														
INFLUENT (MG/L)	105.0	101.0	64.0	106.0	77.0	108.0	90.0	80.0	90.0	60.0	90.0	102.0	89.4	
EFFLUENT (MG/L)	5.0	5.9	4.3	4.7	5.4	4.4	3.3	4.4	2.9	5.6	7.0	4.6	4.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	34.70	39.58	35.38	54.23	46.22	30.36	22.37	35.81	21.34	57.56	79.73	34.17	40.13	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	99.0	103.0	106.0	125.0	137.0	183.0	137.0	145.0	91.0	99.0	106.0	110.0	120.1	
EFFLUENT (MG/L)	6.4	5.3	5.1	4.9	4.1	2.7	7.8	4.4	4.0	4.9	3.1	5.0	4.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	44.41	35.56	41.97	56.54	35.09	18.63	52.88	35.81	29.44	50.37	35.30	37.15	40.13	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.6	4.2	3.4	3.8	4.1	5.0	4.5	5.0	3.8	2.2	2.6	2.3	3.7	
EFFLUENT (MG/L)	0.5	0.7	0.4	0.4	0.7	0.9	0.7	0.6	0.5	0.3	0.4	0.3	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	3.47	4.69	3.29	4.61	5.99	6.21	4.74	4.88	3.68	3.08	4.55	2.22	4.18	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : POWASSAN
PLANT : POWASSAN LAGOON
WORKS NUMBER : 110000613
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
: REGULATED DISCHARGE VOLUME
DESIGN CAPACITY : 0.84 (1000 M3)

REGION : NORTHEAST
DISTRICT : PARRY SOUND
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : GENESEE CREEK
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,100

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.77	1.04	1.42	1.77	1.37	1.15	1.05	ND	ND	ND	ND	ND	1.22	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	60.66	ND	ND	ND	ND	ND	ND	60.66	
BOD5														
INFLUENT (MG/L)	ND	11.0	47.0	32.0	28.0	ND	10.0	ND	ND	ND	ND	ND	25.6	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	4.7	ND	ND	ND	ND	ND	ND	4.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	5.40	ND	ND	ND	ND	ND	ND	5.73	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	20.0	25.0	65.0	75.0	ND	15.0	ND	ND	ND	ND	ND	40.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	31.7	ND	ND	ND	ND	ND	ND	31.7*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	36.45	ND	ND	ND	ND	ND	ND	38.67	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	1.2	2.5	2.8	2.2	ND	1.2	ND	ND	ND	ND	ND	2.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	0.8	ND	ND	ND	ND	ND	ND	0.8	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	0.92	ND	ND	ND	ND	ND	ND	0.98	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	NO
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : RATTER & DUNNET
PLANT : WARREN LAGOON
WORKS NUMBER : 110001916
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 0.68 (1000 M3)

REGION : NORTHEAST
DISTRICT : SUDBURY DIST.
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : VEUVE RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 612

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.23	0.24	0.28	0.40	0.28	0.23	0.22	0.29	0.28	0.24	0.31	0.33	0.28	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	73.0	90.0	91.0	39.0	32.0	60.0	72.0	115.0	87.0	98.0	84.0	99.0	78.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	95.0	148.0	99.0	55.0	60.0	90.0	122.0	140.0	56.0	70.0	77.0	70.0	90.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.2	4.8	4.7	4.6	3.2	4.7	8.1	6.4	7.0	3.8	3.0	2.4	4.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	NO DISCHARGE
SS	25.0 MG/L	NO DISCHARGE
TP	1.0 MG/L	NO DISCHARGE

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED	1988/11		

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : RAYSIDE-BALFOUR
PLANT : AZILDA WPCP
WORKS NUMBER : 110001783
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 2.84 (1000 M3)

REGION : NORTHEAST
DISTRICT : SUDBURY, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : WHITSON CREEK
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 4,373

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.13	1.96	2.43	6.09	3.47	54.15	1.63	1.50	1.69	2.39	3.53	2.10	6.92	
BOD5														
INFLUENT (MG/L)	130.0	101.0	12 0	20.0	5.0	61.0	112.0	26.0	83.0	47.0	17.0	84.0	67.9	
EFFLUENT (MG/L)	3.9	4.0	4.5	21.0	1.4	1.0	1.2	1.2	2.0	3.0	1.7	1.4	3.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	8.30	7.84	10.93	127.89	4.85	54.15	1.95	1.80	3.38	7.17	6.00	2.94	26.99	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	79.0	81.0	63.0	37.0	25.0	65.0	72.0	66.0	92.0	44.0	28.0	84.0	61.3	
EFFLUENT (MG/L)	7.9	4.4	10.7	11.5	5.4	4.3	6.1	3.0	4.9	4.9	5.0	3.6	6.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	16.82	8.62	26.00	70.03	18.73	232.84	9.94	4.50	8.28	11.71	17.65	7.56	41.52	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.4	2.0	2.5	1.0	1.9	3.9	4.2	3.5	4.1	2.6	1.3	2.0	2.8	
EFFLUENT (MG/L)	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.7	0.7	0.2	0.4	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.85	0.78	1.21	3.04	2.08	32.49	0.97	0.90	1.18	1.67	0.70	0.84	3.46	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
M - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : RAYSIDE-BALFOUR
PLANT : CHELMSFORD LAGOON
WORKS NUMBER : 120001176
TREATMENT : CONVENTIONAL LAGOON SEASONAL
DESIGN CAPACITY : 0.82 (1000 M3)

REGION : NORTHEAST
DISTRICT : SUDBURY, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : MCKENZIE CREEK
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 8,162

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.70	1.04	1.09	3.88	1.89	1.58	1.06	1.54	1.64	3.13	3.13	2.70	2.03	
LAGOON DISCHARGE	ND	ND	ND	174.09	ND	ND	ND	ND	ND	ND	185.32	ND	179.71	
BOD5														
INFLUENT (MG/L)	ND	ND	ND	33.4	90.0	ND	ND	ND	ND	ND	ND	ND	61.7	
EFFLUENT (MG/L)	ND	ND	ND	29.0	16.7	ND	ND	ND	ND	4.3	4.1	ND	13.5	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	112.52	31.56	ND	ND	ND	ND	13.45	12.83	ND	27.41	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	25.0	110.0	ND	ND	ND	ND	ND	ND	ND	67.5	
EFFLUENT (MG/L)	ND	ND	ND	16.0	16.7	ND	ND	ND	ND	5.0	4.5	ND	10.6	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	62.08	31.56	ND	ND	ND	ND	15.65	14.08	ND	21.52	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	2.1	5.8	ND	ND	ND	ND	ND	ND	ND	4.0	
EFFLUENT (MG/L)	ND	ND	ND	3.4	2.4	ND	ND	ND	ND	3.3	2.9	ND	3.0	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	13.19	4.53	ND	ND	ND	ND	10.32	9.07	ND	6.09	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - ASSIMILATION STUDY UNDERWAY			1990/12

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : RAYSIDE-BALFOUR
PLANT : CHELMSFORD WPCP
WORKS NUMBER : 1200015[illegible]
TREATMENT : EXTENDED AERATION
: CONTACT STABILIZATION
: PHOSPHORUS REMOVAL-CONTINUOUS
DESIGN CAPACITY : 5.68 (1000 M3)

REGION : NORTHEAST
DISTRICT : SUDBURY, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : WHITSON RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 4,934

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.62	2.65	4.39	6.31	4.77	2.49	1.19	1.59	2.09	4.46	5.81	3.89	3.69	
BOD5														
INFLUENT (MG/L)	95.0	160.0	118.0	24.0	43.0	75.0	5.0	92.0	101.0	49.0	37.0	51.0	70.8	
EFFLUENT (MG/L)	4.3	10.0	5.1	24.0	9.1	1.1	0.9	2.3	1.5	4.9	7.0	8.6	6.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	11.26	26.50	22.38	199.44	43.40	2.73	1.07	3.65	3.13	21.85	40.67	33.45	24.35	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	97.0	145.0	143.0	96.0	76.0	116.0	79.0	104.0	110.0	107.0	99.0	78.0	104.2	
EFFLUENT (MG/L)	10.7	9.7	9.6	26.0	22.2	5.9	5.0	6.1	6.0	8.5	11.4	12.1	11.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	28.03	25.70	42.14	216.06	105.89	14.69	5.95	9.69	12.54	37.91	66.23	47.06	40.96	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.8	4.3	4.9	2.1	3.0	4.8	5.7	4.2	4.6	2.4	2.7	2.6	3.8	
EFFLUENT (MG/L)	0.4	0.4	0.5	0.7	0.5	0.6	0.3	0.3	0.3	0.3	0.2	0.1	0.4	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	1.04	1.06	2.19	5.81	2.38	1.49	0.35	0.47	0.62	1.33	1.16	0.38	1.48	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW			1989/12
COLLECTION SYSTEM - PUMPING STATION MODIFICATION			1989/12
FACILTY EXPANSION/UPGRADING - ASSIMILATION STUDY UNDERWAY			1989/12

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : RUTHERFORD & GEORGE JSL.
PLANT : KILLARNEY LAGOON
WORKS NUMBER : 110002559
TREATMENT : CONVENTIONAL LAGOON SEASONAL
:
:
DESIGN CAPACITY : 0.00 (1000 M3)

REGION : NORTHEAST
DISTRICT : MANITOULIN
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : KILLARNEY CHANNEL
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 505

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	NA	NO DISCHARGE
SS	NA	NO DISCHARGE
TP	NA	NO DISCHARGE

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - HAS NO CRITERIA
SS - HAS NO CRITERIA
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : SAULT STE MARIE
PLANT : SAULT STE.MARIE WPCP
WORKS NUMBER : 110000640
TREATMENT : PRIMARY

DESIGN CAPACITY : 54.55 (1000 M3)

REGION : NORTHEAST
DISTRICT : ALGOMA
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : ST MARY'S RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 75,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	18.92	20.17	31.19	53.39	34.74	33.34	34.46	35.40	32.64	37.24	52.79	26.25	34.21	
BOD5														
INFLUENT (MG/L)	213.0	130.0	163.0	170.0	213.0	160.0	177.0	144.0	84.0	162.0	157.0	194.0	163.9	
EFFLUENT (MG/L)	62.5	51.7	71.5	66.7	53.0	73.3	45.5	73.8	46.3	56.5	38.8	52.0	57.6	
LOADING (KG/D)	1182.50	1042.78	2230.08	3561.11	1841.22	2443.82	1567.93	2612.52	1511.23	2104.06	2048.25	1365.00	1970.50	
PERCENT REMOVAL	71	60	56	61	75	54	74	49	45	65	75	73	65	
PERCENT REMOVAL LIMITS													30	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	192.0	154.0	209.0	204.0	304.0	150.0	140.0	136.0	183.0	152.0	213.0	200.0	186.4	
EFFLUENT (MG/L)	54.0	42.0	44.3	42.7	33.3	42.0	32.0	40.0	45.3	34.0	54.8	44.0	42.4	
LOADING (KG/D)	1021.68	847.14	1381.71	2279.75	1156.84	1400.28	1102.72	1416.00	1478.59	1266.16	2892.89	1155.00	1450.50	
PERCENT REMOVAL	72	73	79	79	89	72	77	71	75	78	74	78	77	
PERCENT REMOVAL LIMITS													50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.6	4.1	5.0	3.4	5.0	5.7	6.2	4.3	3.2	3.9	3.8	ND	4.6	
EFFLUENT (MG/L)	3.5	6.9	3.1	2.1	2.1	3.7	3.0	3.1	2.6	4.1	2.3	ND	3.3	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	66.22	139.17	96.68	112.11	72.95	123.35	103.38	109.74	84.86	152.68	121.41	ND	112.89	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30%	YES
SS	50%	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - CONSTRUCTION INITIATED	1988/01		

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : SAULT STE MARIE
PLANT : WEST END WPCP
WORKS NUMBER : 110002540
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 18.18 (1000 M3)

REGION : NORTHEAST
DISTRICT : ALGOMA
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : ST MARY'S RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED :

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	4.51	4.56	6.80	10.69	5.32	4.25	4.60	7.79	9.65	10.31	15.58	8.26	7.69	
BOD5														
INFLUENT (MG/L)	189.0	114.0	150.0	117.0	195.0	252.0	194.0	215.0	162.0	179.0	104.0	116.0	165.6	
EFFLUENT (MG/L)	4.1	4.3	11.9	4.9	3.5	8.5	23.0	13.9	10.3	15.5	14.0	4.8	9.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	18.49	19.60	80.92	52.38	18.62	36.12	105.80	108.28	99.39	159.80	218.12	39.64	76.13	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	250.0	158.0	165.0	149.0	185.0	233.0	122.0	225.0	156.0	254.0	124.0	161.0	181.8	
EFFLUENT (MG/L)	4.8	6.3	6.0	4.5	3.1	6.3	14.5	6.7	6.7	6.0	4.4	4.8	6.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	21.64	28.72	40.80	48.10	16.49	26.77	66.70	52.19	64.65	61.86	68.55	39.64	47.68	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.8	5.3	4.4	3.2	3.8	6.0	3.8	4.5	3.6	4.8	3.5	2.8	4.1	
EFFLUENT (MG/L)	0.7	0.8	0.8	0.6	0.7	0.8	0.7	0.8	0.6	0.3	0.5	0.8	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	3.15	3.64	5.44	6.41	3.72	3.40	3.22	6.23	5.79	3.09	7.79	6.60	5.38	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : SMOOTH ROCK FALLS
PLANT : SMOOTH ROCK FALLS WPCP
WORKS NUMBER : 110002130
TREATMENT : EXTENDED AERATION
:
:
DESIGN CAPACITY : 1.65 (1000 M3)

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : MATTAGAMI RIVER
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 2,251

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.27	2.01	2.45	5.27	3.15	2.20	1.94	2.84	2.36	2.30	3.56	1.67	2.67	
BOD5														
INFLUENT (MG/L)	ND	130.0	ND	20.0	44.0	103.0	22.0	43.0	39.0	51.0	38.0	65.0	55.5	
EFFLUENT (MG/L)	1.5	1.1	ND	4.8	4.2	9.9	1.6	1.4	1.4	1.2	2.2	1.4	2.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.40	2.21	ND	25.29	13.23	21.78	3.10	3.97	3.30	2.76	7.83	2.33	7.48	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	85.0	ND	28.0	24.0	75.0	23.0	54.0	35.0	24.0	100.0	80.0	52.8	
EFFLUENT (MG/L)	5.0	5.0	7.3	6.3	6.0	6.2	5.3	5.2	4.5	5.0	6.2	6.0	5.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	11.35	10.05	17.88	33.20	18.90	13.64	10.28	14.76	10.62	11.50	22.07	10.02	15.22	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	5.0	ND	1.1	2.4	5.0	2.4	2.4	2.7	2.2	0.7	2.8	2.7	
EFFLUENT (MG/L)	2.2	2.7	ND	0.6	1.9	2.7	2.3	2.4	2.6	1.9	1.5	2.3	2.1	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	4.99	5.42	ND	3.16	5.98	5.94	4.46	6.81	6.13	4.37	5.34	3.84	5.61	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : STURGEON FALLS
PLANT : STURGEON FALLS WPCP
WORKS NUMBER : 110001435
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 4.54 (1000 M3)

REGION : NORTHEAST
DISTRICT : NIPPISSING
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : STURGEON RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 6,040

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	5.05	6.50	7.25	11.23	7.94	5.44	5.22	6.64	6.08	7.11	7.01	5.19	6.72	
BOD5														
INFLUENT (MG/L)	79.0	68.0	77.0	46.0	41.0	88.0	74.0	52.0	57.0	48.0	49.0	65.0	62.0	
EFFLUENT (MG/L)	4.8	5.3	6.2	6.1	19.8	5.6	2.3	6.2	2.6	5.4	7.0	5.0	6.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	24.24	34.45	44.95	68.50	157.21	30.46	12.00	41.16	15.80	38.39	49.07	25.95	43.01	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	75.0	84.0	115.0	62.0	64.0	131.0	135.0	101.0	56.0	48.0	87.0	83.0	86.8	
EFFLUENT (MG/L)	4.7	9.0	7.3	9.7	4.9	4.4	4.5	4.6	3.9	8.5	9.7	5.8	6.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	23.73	58.50	52.92	108.93	38.90	23.93	23.49	30.54	23.71	60.43	67.99	30.10	43.01	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.8	4.4	3.4	2.5	3.0	4.5	4.0	4.4	2.9	2.4	2.4	3.6	3.4	
EFFLUENT (MG/L)	1.2*	0.5	0.7	0.3	0.5	1.2*	1.0	0.7	0.4	0.4	1.2*	0.6	0.7	3
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	6.06	3.25	5.07	3.36	3.97	6.52	5.22	4.64	2.43	2.84	8.41	3.11	4.70	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - MONITORING PROCEDURES BEING UPGRADED			
OPERATIONAL/PROCESS - PROCESS CONTROL BEING UPGRADED		1988/12	1989

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : SUDBURY
PLANT : SUDBURY WPCP
WORKS NUMBER : 110000711
TREATMENT : HIGH RATE

DESIGN CAPACITY : 68.19 (1000 M3)

REGION : NORTHEAST
DISTRICT : SUDBURY, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : JUNCTION CREEK
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 95,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	46.89	47.59	64.15	89.19	66.81	51.06	47.55	65.81	55.10	68.58	81.31	61.13	62.10	
BOD5														
INFLUENT (MG/L)	93.0	122.0	163.0	28.0	71.0	52.0	72.0	125.0	158.0	69.0	54.0	98.0	92.1	
EFFLUENT (MG/L)	22.5	25.7	8.8	11.5	12.0	9.4	9.8	11.4	13.0	14.8	9.9	18.0	13.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1055.02	1223.06	564.52	1025.68	801.72	479.96	465.99	750.23	716.30	1014.98	804.96	1100.34	863.19	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	91.0	100.0	126.0	57.0	70.0	78.0	66.0	60.0	69.0	58.0	51.0	69.0	74.6	
EFFLUENT (MG/L)	10.4	15.3	12.0	8.1	7.7	6.9	6.7	12.1	8.6	5.6	8.7	8.3	9.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	487.65	728.12	769.80	722.43	514.43	352.31	318.58	796.30	473.86	384.04	707.39	507.37	571.32	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.6	3.7	4.6	2.0	2.4	3.1	3.7	2.8	2.4	2.3	1.9	2.8	2.9	
EFFLUENT (MG/L)	0.8	0.8	0.8	0.7	0.8	1.1	1.1	1.0	0.9	0.8	0.7	0.8	0.9	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	37.51	38.07	51.32	62.43	53.44	56.16	52.30	65.81	49.59	54.86	56.91	48.90	55.89	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED			1989/12

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : SUNDRIDGE
PLANT : SUNDRIDGE LAGOON
WORKS NUMBER : 110001961
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 0.65 (1000 M3)

REGION : NORTHEAST
DISTRICT : PARRY SOUND
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BERNARD CREEK
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 740

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.56	0.61	0.63	0.88	0.47	0.42	0.40	0.43	0.43	0.51	0.54	0.49	0.53	
LAGOON DISCHARGE	ND	ND	ND	ND	64.40	ND	ND	ND	58.40	ND	ND	ND	61.40	
BOD5														
INFLUENT (MG/L)	60.0	14.0	42.0	137.5	173.0	116.0	165.0	11.0	ND	104.0	202.0	88.0	101.1	
EFFLUENT (MG/L)	ND	ND	ND	ND	18.6	ND	ND	ND	7.7	ND	ND	ND	13.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	8.74	ND	ND	ND	3.31	ND	ND	ND	7.00	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	60.0	65.0	57.5	55.0	150.0	72.5	80.0	20.0	ND	70.0	150.0	80.0	78.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	47.0	ND	ND	ND	38.0	ND	ND	ND	42.5*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	22.09	ND	ND	ND	16.34	ND	ND	ND	22.53	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.9	1.8	2.7	6.7	4.9	6.7	8.8	0.9	ND	6.3	9.9	5.9	5.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	0.3	ND	ND	ND	1.0	ND	ND	ND	0.7	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	0.14	ND	ND	ND	0.43	ND	ND	ND	0.37	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	NO
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : TEMAGAMI
PLANT : NORTH GOWARD LAGOON
WORKS NUMBER : 120000783
TREATMENT : AERATED CELL PLUS LAGOON
: REGULATED DISCHARGE VOLUME
: EFFLUENT POLISHING
DESIGN CAPACITY : 0.39 (1000 M3)

REGION : NORTHEAST
DISTRICT : NIPPISSING
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NET LAKE
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 350

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.25	0.25	0.26	0.43	0.46	0.23	0.23	0.19	0.24	0.34	0.45	0.29	0.30	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	22.0	7.2	6.6	3.0	1.8	ND	40.0	46.0	ND	12.0	64.0	64.0	26.7	
EFFLUENT (MG/L)	27.0	29.0	22.0	26.5	8.0	ND	27.0	22.0	ND	11.0	4.5	14.0	19.1	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	6.75	7.25	5.72	11.39	3.68	ND	6.21	4.18	ND	3.74	2.02	4.06	5.73	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	29.0	8.0	10.0	4.0	2.0	ND	35.0	70.0	ND	15.0	90.0	9.0	27.2	
EFFLUENT (MG/L)	15.0	20.0	10.0	50.0	35.0	ND	55.0	20.0	ND	10.0	8.0	15.0	23.8	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	3.75	5.00	2.60	21.50	16.10	ND	12.65	3.80	ND	3.40	3.60	4.35	7.14	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	0.7	0.3	0.4	0.4	1.0	ND	3.4	2.3	ND	0.6	3.0	3.2	1.5	
EFFLUENT (MG/L)	2.8	2.3	ND	1.9	1.3	ND	2.1	2.6	ND	1.2	1.7	1.6	2.0	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.70	0.57	ND	0.81	0.59	ND	0.49	0.49	ND	0.40	0.76	0.46	0.60	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : TEMAGAMI
PLANT : TEMAGAMI LAGOON
WORKS NUMBER : 110002327
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 0.11 (1000 M3)

REGION : NORTHEAST
DISTRICT : NIPPISSING
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : SNAKE ISLAND LAKE
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 440

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	150.0	175.0	180.0	140.0	125.0	ND	280.0	ND	190.0	ND	120.0	245.0	178.3	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	90.0	95.0	140.0	140.0	80.0	ND	230.0	ND	95.0	ND	130.0	160.0	128.9	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.5	6.1	12.0	6.6	8.5	ND	9.5	ND	9.5	ND	7.0	1.0	7.5	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	NO DIRECT DISCHARGE
SS	25.0 MG/L	NO DIRECT DISCHARGE
TP	1.0 MG/L	NO DIRECT DISCHARGE

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - FINAL DESIGN PHASE	1988/12		

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : THESSALON
PLANT : THESSALON LAGOON
WORKS NUMBER : 110002434
TREATMENT : CONVENTIONAL LAGOON SEASONAL
:
:
DESIGN CAPACITY : 1.23 (1000 M3)

REGION : NORTHEAST
DISTRICT : ALGOMA
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : THESSALON RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,600

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.13	1.06	1.20	1.81	1.27	1.12	1.09	1.27	1.19	1.39	1.84	1.30	1.31	
LAGOON DISCHARGE	ND	ND	ND	ND	21.10	ND	ND	ND	ND	ND	21.10	ND	21.10	
BOD5														
INFLUENT (MG/L)	55.0	50.0	36.0	40.0	49.0	50.0	26.0	17.0	50.0	24.0	40.0	65.0	41.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	13.9	ND	ND	ND	ND	ND	5.9	ND	9.9	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	17.65	ND	ND	ND	ND	ND	10.85	ND	12.97	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	50.0	45.0	60.0	50.0	45.0	35.0	20.0	40.0	100.0	30.0	50.0	52.0	48.1	
EFFLUENT (MG/L)	ND	ND	ND	ND	30.0	ND	ND	ND	ND	ND	5.7	ND	17.9	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	38.10	ND	ND	ND	ND	ND	10.48	ND	23.45	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.1	4.0	3.4	3.5	2.7	4.1	3.8	2.5	3.1	3.2	3.5	2.4	3.4	
EFFLUENT (MG/L)	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	1.7	ND	1.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	1.52	ND	ND	ND	ND	ND	3.12	ND	1.97	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : TIMMINS
PLANT : BOB'S LAKE LAGOON
WORKS NUMBER : 120000275
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS
:
:
DESIGN CAPACITY : 0.07 (1000 M3)

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : BOB'S CK TO PORCUPINE L.
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 170

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	150.0	140.0	230.0	35.0	38.0	155.0	400.0	310.0	96.0	88.0	78.0	68.0	149.0	
EFFLUENT (MG/L)	42.0	70.0	104.0	16.0	13.0	18.0	36.0	14.0	39.0	18.0	7.8	12.0	32.5*	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	140.0	160.0	1,160.0	90.0	70.0	90.0	310.0	240.0	60.0	85.0	95.0	140.0	220.0	
EFFLUENT (MG/L)	20.0	15.0	20.0	15.0	15.0	30.0	25.0	15.0	30.0	20.0	7.0	10.0	18.5	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.3	8.3	14.0	2.2	5.1	16.0	7.6	5.6	4.2	7.8	4.3	4.3	7.2	
EFFLUENT (MG/L)	4.4	5.3	5.8	2.1	2.3	1.9	3.7	3.0	2.9	2.6	2.5	2.5	3.3	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	NO
SS	40.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : TIMMINS
PLANT : MATTAGAMI WPCP
WORKS NUMBER : 110000766
TREATMENT : PRIMARY
:
:
DESIGN CAPACITY : 34.09 (1000 M3)

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : MATTAGAMI RIVER
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 33,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	15.00	15.50	17.40	34.20	23.10	19.90	18.40	24.50	21.60	27.40	21.00	18.90	21.41	
BOD5														
INFLUENT (MG/L)	86.0	106.0	90.0	124.0	58.0	64.0	48.0	36.0	76.0	90.0	102.0	80.0	80.0	
EFFLUENT (MG/L)	38.0	43.0	25.0	23.0	17.0	35.0	27.0	13.0	19.0	37.0	38.0	22.6	28.1	
LOADING (KG/D)	570.00	666.50	435.00	786.60	392.70	696.50	496.80	318.50	410.40	1013.80	798.00	427.14	601.62	
PERCENT REMOVAL	56	59	72	81	71	45	44	64	75	59	63	72	65	
PERCENT REMOVAL LIMITS													30	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	120.0	149.0	138.0	107.0	105.0	111.0	152.0	131.0	149.0	140.0	137.0	200.0	136.6	
EFFLUENT (MG/L)	34.8	38.0	43.4	29.5	24.0	32.9	18.0	28.3	43.6	40.8	55.8	55.5	37.1	
LOADING (KG/D)	522.00	589.00	755.16	1008.90	554.40	654.71	331.20	693.35	941.76	1117.92	1171.80	1048.95	794.31	
PERCENT REMOVAL	71	74	69	72	77	70	88	78	71	71	59	72	73	
PERCENT REMOVAL LIMITS													50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.6	5.1	4.9	2.6	4.1	4.9	4.8	4.2	4.0	5.1	5.1	4.0	4.5	
EFFLUENT (MG/L)	2.2	3.9	1.1	1.4	7.4	2.2	ND	1.0	1.4	1.2	1.9	1.2	2.3	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	33.00	60.45	19.14	47.88	170.94	43.78	ND	24.50	30.24	32.88	39.90	22.68	49.24	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30%	YES
SS	50%	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

NO REMEDIAL MEASURES REPORTED

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : TIMMINS
PLANT : WHITNEY & TISDALE WPCP
WORKS NUMBER : 110001391
TREATMENT : EXTENDED AERATION
:
:
DESIGN CAPACITY : 6.81 (1000 M3)

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : PORCUPINE RIVER
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 7,300

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.81	2.89	ND	8.94	4.77	3.41	3.07	5.31	5.14	4.79	6.48	3.38	4.64	
BOD5														
INFLUENT (MG/L)	118.0	155.0	104.0	42.0	72.0	98.0	55.0	60.0	100.0	104.0	66.0	116.0	90.8	
EFFLUENT (MG/L)	9.5	10.0	8.5	5.0	12.0	2.4	3.2	1.8	2.1	1.8	2.8	12.0	5.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	26.69	28.90	ND	44.70	57.24	8.18	9.82	9.55	10.79	8.62	18.14	40.56	27.38	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	170.0	180.0	160.0	140.0	90.0	120.0	55.0	55.1	85.0	110.0	85.0	120.0	114.2	
EFFLUENT (MG/L)	8.0	7.0	7.0	8.0	4.0	5.0	7.0	5.0	5.0	4.0	7.0	7.0	6.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	22.48	20.23	ND	71.52	19.08	17.05	21.49	26.55	25.70	19.16	45.36	23.66	28.77	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.5	7.2	5.1	2.8	4.9	6.1	3.9	4.0	5.4	5.2	3.6	5.7	5.0	
EFFLUENT (MG/L)	4.1	4.4	3.9	1.1	2.4	3.4	4.4	2.2	2.9	2.3	1.8	2.6	3.0	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	11.52	12.71	ND	9.83	11.44	11.59	13.50	11.68	14.90	11.01	11.66	8.78	15.92	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : VAL RITA-HARTY
PLANT : HARTY LAGOON
WORKS NUMBER : 120003316
TREATMENT : CONVENTIONAL LAGOON SEASONAL
:
:
DESIGN CAPACITY : 30.60 (1000 M3)

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NO NAME CREEK
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 140

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	96.0	195.0	185.0	49.0	135.0	80.0	120.0	140.0	85.0	ND	56.0	210.0	122.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	170.0	220.0	180.0	62.0	130.0	85.0	130.0	80.0	70.0	ND	60.0	120.0	118.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.8	6.5	5.5	3.6	5.3	5.6	7.0	6.5	3.2	ND	1.5	11.0	5.7	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	NA	NO DISCHARGE
SS	NA	NO DISCHARGE
TP	NA	NO DISCHARGE

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - HAS NO CRITERIA
SS - HAS NO CRITERIA
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : VAL-RITA-HARTY
PLANT : VAL-RITA LAGOON
WORKS NUMBER : 110002318
TREATMENT : CONVENTIONAL LAGOON SEASONAL
: PHOSPHORUS REMOVAL - BATCH
:
DESIGN CAPACITY : 0.53 (1000 M3)

REGION : NORTHEAST
DISTRICT : COCHRANE
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : UNNAMED CK.TO KAPUSK.RIV
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 580

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	100.0	130.0	235.0	29.0	ND	36.0	46.0	29.0	96.0	ND	ND	ND	87.6	
EFFLUENT (MG/L)	ND	ND	ND	ND	11.1	ND	ND	ND	ND	ND	1.5	ND	6.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	180.0	280.0	270.0	45.0	ND	60.0	45.0	35.0	130.0	ND	ND	ND	130.6	
EFFLUENT (MG/L)	ND	ND	ND	ND	20.0	ND	ND	ND	ND	ND	4.0	ND	12.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.9	7.0	9.8	4.9	ND	3.5	4.4	3.6	5.8	ND	ND	ND	6.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	1.7*	ND	ND	ND	ND	ND	1.3*	ND	1.5	2
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
NO REMEDIAL MEASURES DESCRIPTION	1989/02	1989/05	1989/05
OPERATIONAL/PROCESS - PHOSPHORUS REMOVAL BEING UPGRADED	1989/02	1989/05	1989/05

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : VALLEY EAST
PLANT : HAMNER,VAL-CARON,VAL-THERESE WPCP
WORKS NUMBER : 110001541
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 11.36 (1000 M3)

REGION : NORTHEAST
DISTRICT : SUDBURY, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : VERMILION RIVER
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 17,337

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	4.30	4.24	44.66	8.05	6.29	47.00	4.10	4.30	4.23	4.73	6.06	6.17	12.01	
BOD5														
INFLUENT (MG/L)	115.0	175.0	118.0	61.0	64.0	110.0	93.0	93.0	80.0	98.0	84.0	115.0	100.5	
EFFLUENT (MG/L)	1.9	3.3	6.0	3.0	9.4	5.7	21.5	23.0	8.2	1.8	4.2	5.0	7.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	8.17	13.99	267.96	24.15	59.12	267.90	88.15	98.90	34.68	8.51	25.45	30.85	93.68	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	165.0	193.0	170.0	103.0	101.0	154.0	147.0	156.0	183.0	183.0	128.0	138.0	151.8	
EFFLUENT (MG/L)	5.8	2.7	1.1	4.2	3.9	5.0	5.0	3.1	2.6	3.5	1.2	1.9	3.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	24.94	11.44	49.12	33.81	24.53	235.00	20.50	13.33	10.99	16.55	7.27	11.72	39.63	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.6	6.5	8.3	4.0	3.4	7.0	5.0	6.6	9.1	4.2	3.4	5.3	5.7	
EFFLUENT (MG/L)	0.5	0.5	0.4	0.3	0.3	0.8	0.5	0.6	0.9	0.4	0.4	0.5	0.5	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	2.15	2.12	17.86	2.41	1.88	37.60	2.05	2.58	3.80	1.89	2.42	3.08	6.01	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WALDEN
PLANT : LIVELY WPCP
WORKS NUMBER : 120001105
TREATMENT : EXTENDED AERATION
:
:
DESIGN CAPACITY : 1.59 (1000 M3)

REGION : NORTHEAST
DISTRICT : SUDBURY, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : MEATBIRD CREEK
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 3,669

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.56	1.43	1.82	2.36	1.63	1.32	1.17	1.41	1.41	1.50	2.17	1.71	1.62	
BODS														
INFLUENT (MG/L)	116.0	101.0	64.0	51.0	64.0	68.0	56.0	79.0	78.0	85.0	66.0	80.0	75.7	
EFFLUENT (MG/L)	10.3	10.0	5.4	4.0	3.3	6.3	3.0	2.0	1.0	2.9	4.3	7.1	5.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	16.06	14.30	9.82	9.44	5.37	8.31	3.51	2.82	1.41	4.35	9.33	12.14	8.10	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	134.0	109.0	114.0	70.0	99.0	129.0	132.0	132.0	88.0	100.0	76.0	105.0	107.3	
EFFLUENT (MG/L)	11.8	10.5	8.5	5.9	4.9	15.3	3.0	2.3	6.0	3.4	5.7	5.8	6.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	18.40	15.01	15.47	13.92	7.98	20.19	3.51	3.24	8.46	5.10	12.36	9.91	11.18	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.9	4.9	4.6	2.5	4.3	4.6	5.1	5.5	5.3	3.9	3.8	4.4	4.6	
EFFLUENT (MG/L)	3.5	3.2	2.0	1.4	2.3	3.3	3.5	3.0	2.9	1.9	1.8	2.5	2.6	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	5.46	4.57	3.64	3.30	3.74	4.35	4.09	4.23	4.08	2.85	3.90	4.27	4.21	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WALDEN
PLANT : MIKKOLA WPCP
WORKS NUMBER : 120001531
TREATMENT : EXTENDED AERATION
:
:
DESIGN CAPACITY : 4.36 (1000 M3)

REGION : NORTHEAST
DISTRICT : SUDBURY, REG. MUN.
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : JUNCTION CREEK
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,693

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.87	3.19	4.02	ND	1.74	1.31	1.12	1.12	2.23	1.94	2.10	1.63	2.12	
BOD5														
INFLUENT (MG/L)	59.0	43.0	67.0	35.0	35.0	45.0	53.0	64.0	89.0	80.0	40.0	71.0	56.8	
EFFLUENT (MG/L)	5.4	5.5	19.7	11.0	6.1	4.4	7.6	2.5	3.5	13.0	4.9	6.5	7.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	15.49	17.54	79.19	ND	10.61	5.76	8.51	2.80	7.80	25.22	10.29	10.59	15.90	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	97.0	68.0	224.0	51.0	77.0	121.0	116.0	130.0	131.0	104.0	59.0	81.0	104.9	
EFFLUENT (MG/L)	8.8	10.2	15.5	18.4	7.9	6.7	5.1	4.7	9.9	6.0	4.5	8.1	8.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	25.25	32.53	62.31	ND	13.74	8.77	5.71	5.26	22.07	11.64	9.45	13.20	18.66	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.3	2.8	4.1	2.7	4.2	4.8	5.3	5.7	5.0	5.1	3.0	4.6	4.3	
EFFLUENT (MG/L)	4.0	2.5	3.5	2.0	2.6	3.8	3.9	4.1	3.2	3.2	2.1	3.3	3.2	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	11.48	7.97	14.07	ND	4.52	4.97	4.36	4.59	7.13	6.20	4.41	5.37	6.78	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WEBBWOOD
PLANT : WEBBWOOD LAGOON
WORKS NUMBER : 110001881
TREATMENT : CONVENTIONAL LAGOON SEASONAL
:
:
DESIGN CAPACITY : 0.34 (1000 M3)

REGION : NORTHEAST
DISTRICT : SUDBURY DIST.
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : GOUGH CREEK
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 460

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.09	0.09	0.12	0.12	0.10	0.10	0.17	0.39	0.09	0.09	0.10	0.11	0.13	
LAGOON DISCHARGE	ND	ND	ND	26.87	16.03	ND	ND	ND	ND	ND	ND	ND	21.45	
BOD5														
INFLUENT (MG/L)	175.0	148.0	166.0	180.0	275.0	87.0	138.0	127.0	155.0	235.0	104.0	200.0	165.8	
EFFLUENT (MG/L)	ND	ND	ND	17.6	65.0	ND	ND	ND	ND	ND	ND	ND	41.3*	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	2.11	6.50	ND	ND	ND	ND	ND	ND	ND	5.37	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	65.0	73.0	233.0	113.0	210.0	97.0	67.0	58.0	80.0	98.0	115.0	140.0	112.4	
EFFLUENT (MG/L)	ND	ND	ND	40.7	200.0	ND	ND	ND	ND	ND	ND	ND	120.4*	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	4.88	20.00	ND	ND	ND	ND	ND	ND	ND	15.65	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.7	9.8	6.5	12.0	11.0	8.4	7.9	8.9	12.0	12.5	9.5	13.0	10.0	
EFFLUENT (MG/L)	ND	ND	ND	3.1	3.9	ND	ND	ND	ND	ND	ND	ND	3.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	0.37	0.39	ND	ND	ND	ND	ND	ND	ND	0.46	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	NO
SS	40.0 MG/L	NO
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
EQUIPMENT/MAINTENANCE - EXISTING EQUIPMENT BEING REPAIRED			

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : WHITE RIVER
PLANT : WHITE RIVER LAGOON
WORKS NUMBER : 110002522
TREATMENT : CONVENTIONAL LAGOON SEASONAL
:
:
DESIGN CAPACITY : 0.00 (1000 M3)

REGION : NORTHEAST
DISTRICT : ALGOMA
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : SMALL CR.TO WHITE RIVER
MINOR BASIN : SUPERIOR
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.45	0.42	0.41	0.49	0.58	0.53	0.57	0.49	0.45	0.51	0.56	0.65	0.51	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	NO DISCHARGE
SS	40.0 MG/L	NO DISCHARGE
TP	NA	NO DISCHARGE

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

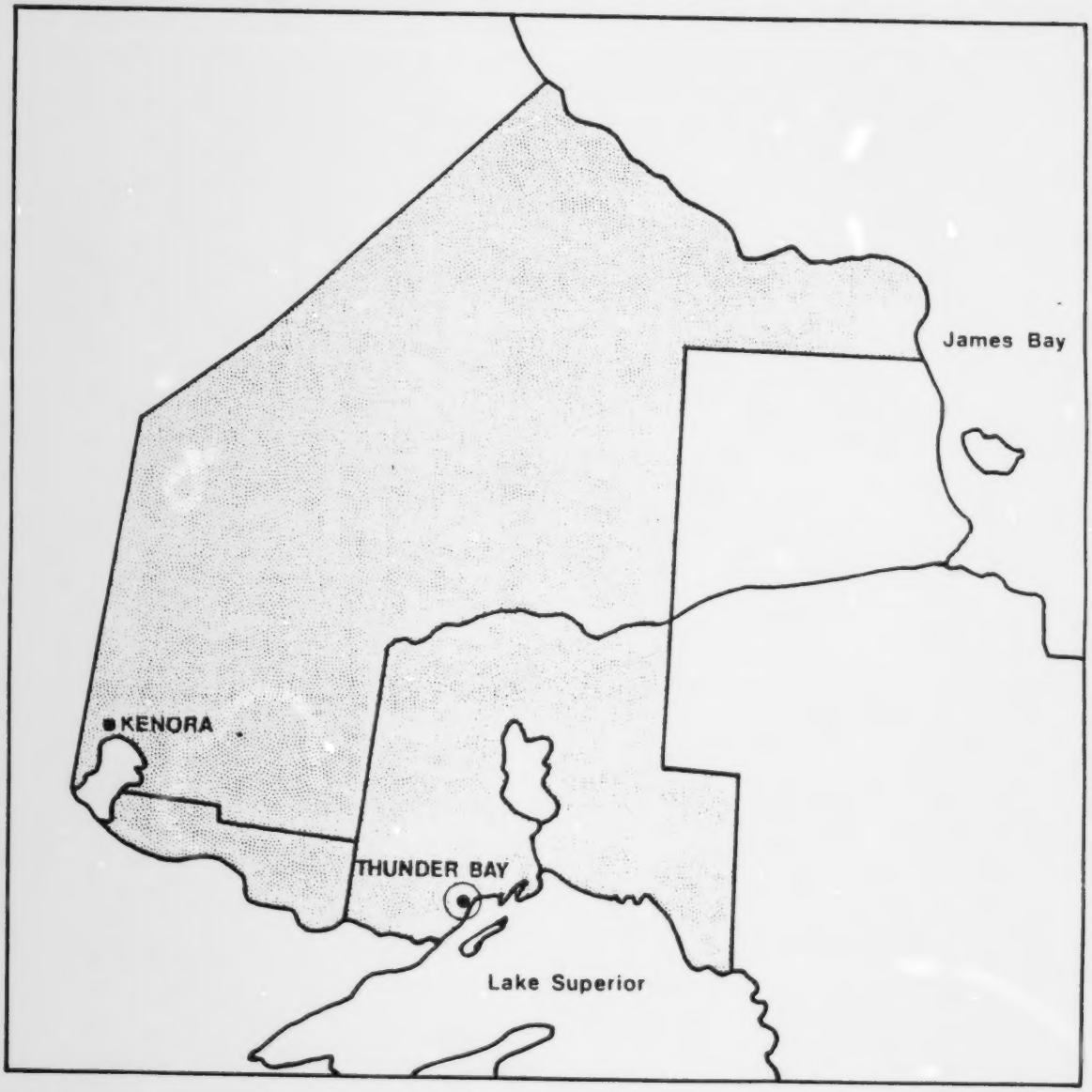
NO REMEDIAL MEASURES REPORTED

Northwestern Region

6

Ontario

Ministry of the Environment



Northwestern Region

6

Ministry of the Environment

Ontario

REGIONAL OFFICE

Thunder Bay
435 James St. South
P.O. Box 5000
P7C 5G8
(807) 475-1205

DISTRICT OFFICES

Kenora
808 Robertson St.
P9N 1X9
(807) 468-5578

Thunder Bay
435 James St. South
P.O. Box 5000
P7C 5G8
(807) 475-1315

NORTHWEST SUMMARY - 1988

TREATMENT TYPE	NUMBER			DESIGN CAPACITY (1000M3)		
	MIN	MUN	TOT	MINISTRY	MUNICIPAL	TOTAL
EXFILTRATION LAGOON	1	0	1	9.09	0.00	9.09
PRIMARY	0	3	3	0.00	112.01	112.01
CONVENTIONAL ACTIVATED SLUDGE	0	1	1	0.00	2.27	2.27
CONTACT STABILIZATION	1	2	3	2.45	25.00	27.45
EXTENDED AERATION	10	1	11	23.12	0.54	23.67
COMMUNAL SEPTIC TANK	1	0	1	0.27	0.00	0.27
AERATED LAGOON	0	1	1	0.00	4.10	4.10
CONVENTIONAL LAGOON CONTINUOUS	0	1	1	0.00	1.36	1.36
CONVENTIONAL LAGOON SEASONAL	3	0	3	2.03	0.00	2.03
EXFILTRATION LAGOON	1	1	2	1.36	0.05	1.42
TOTALS	17	10	27	38.34	145.35	183.69

1000M3/D: THOUSANDS OF CUBIC METERS PER DAY
ADF : AVERAGE DAILY FLOW

NORTHWEST SUMMARY - 1988

TREATMENT TYPE	NUMBER			ANNUAL ADF (1000M3)		
	MIN	MUN	TOT	MINISTRY	MUNICIPAL	TOTAL
EXFILTRATION LAGOON	1	0	1	7.61	0.00	7.61
PRIMARY	0	3	3	0.00	87.94	87.94
CONVENTIONAL ACTIVATED SLUDGE	0	1	1	0.00	2.67	2.67
CONTACT STABILIZATION	1	2	3	2.53	13.68	16.21
EXTENDED AERATION	10	1	11	13.73	0.30	14.03
COMMUNAL SEPTIC TANK	1	0	1	0.13	0.00	0.13
AERATED LAGOON	0	1	1	0.00	3.17	3.17
CONVENTIONAL LAGOON CONTINUOUS	0	1	1	0.00	0.00	0.00
CONVENTIONAL LAGOON SEASONAL	3	0	3	1.37	0.00	1.37
EXFILTRATION LAGOON	1	1	2	0.25	0.00	0.25
TOTALS	17	10	27	25.62	107.76	133.38

1000M3/D: THOUSANDS OF CUBIC METERS PER DAY
ADF : AVERAGE DAILY FLOW

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ATIKOKAN
PLANT : ATIKOKAN WPCP
WORKS NUMBER : 110001523
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 4.08 (1000 M3)

REGION : NORTHWEST
DISTRICT : RAINY RIVER
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : ATIKOKAN RIVER
MINOR BASIN : LAKE WINNIPEG EAST
MAJOR BASIN : NELSON RIVER
POPULATION SERVED : 4,500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.67	2.51	2.50	4.08	3.24	2.66	2.49	4.59	3.07	2.91	2.98	2.20	2.91	
BOD5														
INFLUENT (MG/L)	72.0	52.0	35.0	46.0	33.0	46.0	21.0	43.0	56.0	38.0	46.0	87.0	47.9	
EFFLUENT (MG/L)	4.1	6.2	4.5	5.0	1.7	0.8	0.9	0.9	2.0	1.5	1.8	4.1	2.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	6.84	15.56	11.25	20.40	5.50	2.12	2.24	4.13	6.14	4.36	5.36	9.02	8.15	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	110.0	130.0	60.0	87.0	58.0	72.0	45.0	85.0	77.0	48.0	60.0	112.0	78.7	
EFFLUENT (MG/L)	35.0	25.0	15.0	25.0	8.7	7.0	6.0	13.5	9.0	15.0	17.5	20.0	16.4	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	58.45	62.75	37.50	102.00	28.18	18.62	14.94	61.96	27.63	43.65	52.15	44.00	47.72	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.9	2.7	2.0	2.6	2.0	3.0	2.1	2.2	1.6	2.4	2.3	4.0	2.6	
EFFLUENT (MG/L)	1.7*	1.0	0.6	0.8	0.6	0.4	0.4	0.5	0.4	0.7	0.7	0.8	0.7	1
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	2.83	2.51	1.50	3.26	1.94	1.06	0.99	2.29	1.22	2.03	2.08	1.76	2.04	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

OPERATIONAL/PROCESS - SAMPLING PROGRAM BEING MODIFIED
NO REMEDIAL MEASURES DESCRIPTION

START DATE	END DATE	ANTICIPATED COMPLIANCE
1989/04	1990/12	1990
1988		1989

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : ATWOOD
PLANT : RAINY RIVER LAGOON
WORKS NUMBER : 110002292
TREATMENT : CONVENTIONAL LAGOON SEASONAL
:
:
DESIGN CAPACITY : 0.99 (1000 M3)

REGION : NORTHWEST
DISTRICT : RAINY RIVER
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : RAINY RIVER
MINOR BASIN : LAKE WINNIPEG EAST
MAJOR BASIN : NELSON RIVER
POPULATION SERVED : 975

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.49	0.49	0.56	0.64	0.68	0.70	0.66	0.72	0.75	0.55	0.49	0.50	0.60	
LAGOON DISCHARGE	ND	ND	ND	ND	40.09	45.21	ND	ND	ND	51.55	39.14	ND	44.00	
BOD5														
INFLUENT (MG/L)	276.0	100.0	64.0	95.0	156.0	96.0	96.0	92.0	68.0	109.0	128.0	168.0	120.7	
EFFLUENT (MG/L)	ND	ND	ND	ND	9.3	6.3	ND	ND	ND	4.4	2.2	ND	5.6	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	6.32	4.41	ND	ND	ND	2.42	1.07	ND	3.36	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	160.0	137.0	85.0	140.0	130.0	110.0	100.0	87.0	77.0	120.0	145.0	145.0	119.7	
EFFLUENT (MG/L)	ND	ND	ND	ND	12.6	9.4	ND	ND	ND	6.7	2.0	ND	7.7	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	8.56	6.58	ND	ND	ND	3.68	0.98	ND	4.62	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.8	8.1	3.3	4.3	6.0	4.5	3.7	3.9	3.5	4.9	5.9	6.0	5.1	
EFFLUENT (MG/L)	ND	ND	ND	ND	1.2	1.6	ND	ND	ND	0.6	0.7	ND	1.0	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	0.81	1.12	ND	ND	ND	0.33	0.34	ND	0.60	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : BEARDMORE
PLANT : BEARDMORE LAGOON
WORKS NUMBER : 110002309
TREATMENT : EXFILTRATION LAGOON
:
:
DESIGN CAPACITY : 1.36 (1000 M3)

REGION : NORTHWEST
DISTRICT : THUNDER BAY
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : NO DISC.TO SURFACE WATER
MINOR BASIN : SUPERIOR
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 570

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.20	0.19	0.18	0.22	0.24	0.22	0.18	0.22	0.30	0.39	0.36	0.25	0.25	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	121.5	119.5	142.5	115.5	195.0	135.0	168.0	135.0	51.0	94.0	81.0	124.0	123.5	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	115.0	80.0	115.0	90.0	125.0	93.0	160.0	95.0	73.0	75.0	95.0	120.0	103.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	8.6	6.7	7.3	5.5	6.2	6.7	7.8	6.7	2.9	4.7	4.1	7.4	6.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	NA	NO DIRECT DISCHARGE
SS	NA	NO DIRECT DISCHARGE
TP	NA	NO DIRECT DISCHARGE

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - HAS NO CRITERIA
SS - HAS NO CRITERIA
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : CARAMAT
PLANT : CARAMAT
WORKS NUMBER : 120003085
TREATMENT : EXFILTRATION LAGOON
: EXFILTRATION
:
DESIGN CAPACITY : 0.05 (1000 M3)

REGION : NORTHWEST
DISTRICT : THUNDER BAY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NO DISC.TO SURFACE WATER
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 125

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	NA	NO DIRECT DISCHARGE
SS	NA	NO DIRECT DISCHARGE
TP	NA	NO DIRECT DISCHARGE

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - HAS NO CRITERIA
SS - HAS NO CRITERIA
TP - HAS NO CRITERIA
" - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : DRYDEN
PLANT : DRYDEN WPCP
WORKS NUMBER : 120000248
TREATMENT : CONTACT STABILIZATION
:
:
DESIGN CAPACITY : 6.81 (1000 M3)

REGION : NORTHWEST
DISTRICT : KENORA
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : WABIGOON RIVER
MINOR BASIN : LAKE WINNIPEG EAST
MAJOR BASIN : NELSON RIVER
POPULATION SERVED : 6,900

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.94	3.20	3.60	4.92	3.67	4.51	4.80	4.32	3.98	3.67	3.62	3.30	3.88	
BOD5														
INFLUENT (MG/L)	80.0	125.0	74.0	26.0	100.0	76.0	54.0	46.0	30.0	76.0	52.0	78.0	68.1	
EFFLUENT (MG/L)	7.6	16.0	4.0	7.6	6.6	4.0	4.5	2.5	2.7	3.4	16.0	7.0	6.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	22.34	51.20	14.40	37.39	24.22	18.04	21.60	10.80	10.74	12.47	57.92	23.10	26.38	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	150.0	140.0	130.0	40.0	230.0	95.0	100.0	55.0	30.0	85.0	35.0	80.0	97.5	
EFFLUENT (MG/L)	5.0	10.0	3.0	4.0	4.0	2.0	15.0	3.0	3.0	ND	8.0	8.0	5.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	14.70	32.00	10.80	19.68	14.68	9.02	72.00	12.96	11.94	ND	28.96	26.40	22.89	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.5	5.7	3.7	1.6	5.1	3.0	3.1	3.4	3.8	3.0	3.0	4.0	3.7	
EFFLUENT (MG/L)	0.8	0.5	0.3	0.4	0.3	0.3	0.5	0.3	0.3	0.3	0.9	ND	0.4	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	2.35	1.60	1.08	1.96	1.10	1.35	2.40	1.29	1.19	1.10	3.25	ND	1.55	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : EAR FALLS
PLANT : EAR FALLS WPCP
WORKS NUMBER : 110001006
TREATMENT : EXTENDED AERATION
: CONVERTIBLE OPERATING MODE
:
DESIGN CAPACITY : 2.86 (1000 M3)

REGION : NORTHWEST
DISTRICT : KENORA
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : ENGLISH RIVER
MINOR BASIN : LAKE WINNIPEG EAST
MAJOR BASIN : NELSON RIVER
POPULATION SERVED : 1,750

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.29	1.26	1.20	1.24	1.22	1.27	1.24	1.25	1.53	1.27	1.29	1.28	1.28	
BOD5														
INFLUENT (MG/L)	50.0	103.0	69.0	64.0	80.0	88.0	39.0	49.0	53.0	72.0	64.0	108.0	69.9	
EFFLUENT (MG/L)	1.9	3.6	1.8	2.6	1.3	0.4	0.7	1.7	1.6	1.2	1.2	1.0	1.6	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	2.45	4.53	2.16	3.22	1.58	0.50	0.86	2.12	2.44	1.52	1.54	1.28	2.05	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	212.0	95.0	255.0	215.0	105.0	40.0	20.0	87.0	900.0	130.0	50.0	145.0	187.8	
EFFLUENT (MG/L)	10.0	13.0	8.0	30.0	10.5	7.0	5.0	5.0	8.5	11.0	7.0	6.5	10.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	12.90	16.38	9.60	37.20	12.81	8.89	6.20	6.25	13.00	13.97	9.03	8.32	12.93	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.1	4.1	4.5	2.9	2.7	2.3	3.0	4.2	4.5	3.9	3.5	4.1	3.6	
EFFLUENT (MG/L)	0.6	0.7	0.5	1.6	0.9	0.5	0.5	0.5	0.7	6.6	0.4	0.4	1.2	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.77	0.88	0.60	1.98	1.09	0.63	0.62	0.62	1.07	8.38	0.51	0.51	1.54	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : EMO
PLANT : EMO LAGOON
WORKS NUMBER : 110001015
TREATMENT : CONVENTIONAL LAGOON SEASONAL
DESIGN CAPACITY : 0.27 (1000 M3)

REGION : NORTHWEST
DISTRICT : RAINY RIVER
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : RAINY RIVER
MINOR BASIN : LAKE WINNIPEG EAST
MAJOR BASIN : NELSON RIVER
POPULATION SERVED : 750

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.39	0.38	0.39	0.44	0.37	0.47	0.43	0.50	0.48	0.44	0.45	0.43	0.43	
LAGOON DISCHARGE	ND	ND	ND	ND	38.40	60.48	ND	ND	ND	ND	79.35	ND	59.41	
BOD5														
INFLUENT (MG/L)	100.0	113.0	146.0	92.0	143.0	120.0	78.0	76.0	104.0	143.0	112.0	129.0	113.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	14.5	17.4	ND	ND	ND	ND	7.1	ND	13.0	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	5.36	8.17	ND	ND	ND	ND	3.19	ND	5.59	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	93.0	175.0	155.0	108.0	135.0	125.0	180.0	168.0	85.0	170.0	115.0	116.0	135.6	
EFFLUENT (MG/L)	ND	ND	ND	ND	18.0	36.5	ND	ND	ND	ND	8.5	ND	21.0	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	6.66	17.15	ND	ND	ND	ND	3.82	ND	9.03	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	7.1	6.1	9.1	4.5	6.9	5.8	5.7	4.9	6.8	7.6	5.5	3.1	6.1	
EFFLUENT (MG/L)	ND	ND	ND	ND	2.2	1.8	ND	ND	ND	ND	1.0	ND	1.7	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	0.81	0.84	ND	ND	ND	ND	0.45	ND	0.73	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

START DATE	END DATE	ANTICIPATED COMPLIANCE

FACILTY EXPANSION/UPGRADING - ENGINEERING STUDY PHASE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : FORT FRANCES
PLANT : FORT FRANCES WPCP
WORKS NUMBER : 110000258
TREATMENT : PRIMARY
:
:
DESIGN CAPACITY : 9.09 (1000 M3)

REGION : NORTHWEST
DISTRICT : RAINY RIVER
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : RAINY RIVER
MINOR BASIN : LAKE WINNIPEG EAST
MAJOR BASIN : NELSON RIVER
POPULATION SERVED : 8,750

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	6.40	6.30	6.20	6.40	6.60	7.70	10.80	13.17	9.54	6.65	5.82	5.69	7.61	
BOD5														
INFLUENT (MG/L)	82.0	78.0	77.0	70.0	70.0	123.0	52.0	67.0	64.0	38.0	58.0	85.0	72.0	
EFFLUENT (MG/L)	57.0	41.0	52.0	47.0	51.0	41.0	29.0	35.5	34.5	38.0	44.0	50.0	43.3	
LOADING (KG/D)	364.80	258.30	322.40	300.80	336.60	315.70	313.20	467.53	329.13	252.70	256.08	284.50	329.51	
PERCENT REMOVAL	30	47	32	33	27	67	44	47	46		24	41	40	
PERCENT REMOVAL LIMITS													30	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	93.0	190.0	140.0	133.0	125.0	125.0	85.0	150.0	130.0	55.0	90.0	140.0	121.3	
EFFLUENT (MG/L)	55.0	50.0	55.0	63.0	65.0	53.0	35.0	77.5	70.0	45.0	65.0	65.0	58.2	
LOADING (KG/D)	352.00	315.00	341.00	403.20	429.00	408.10	378.00	1020.67	667.80	299.25	378.30	369.85	442.90	
PERCENT REMOVAL	41	74	61	53	48	58	59	48	46	18	28	54	52	
PERCENT REMOVAL LIMITS													50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.1	5.7	3.8	3.4	3.6	5.2	3.2	3.2	2.7	2.2	2.8	4.8	3.6	
EFFLUENT (MG/L)	2.5	2.9	2.9	2.7	3.0	2.5	3.3	14.5	2.2	2.4	2.8	2.6	3.7	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	16.00	18.27	17.98	17.28	19.80	19.25	35.64	190.96	20.98	15.96	16.29	14.79	28.16	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30%	YES
SS	50%	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
COLLECTION SYSTEM - SEWAGE UPGRADE UNDERWAY			1995
COLLECTION SYSTEM - INFILTRATION PROBLEMS BEING CORRECTED			1995
COLLECTION SYSTEM - ILLEGAL CONNECTIONS BEING ELIMINATED			1995
COLLECTION SYSTEM - ENFORCING SEWER-USE BYLAWS			1995
FACILTY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED			1995

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : GERALDTON
PLANT : GERALDTON WPCP
WORKS NUMBER : 110001649
TREATMENT : EXTENDED AERATION
:
:
DESIGN CAPACITY : 1.81 (1000 M3)

REGION : NORTHWEST
DISTRICT : THUNDER BAY
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : LAKE KENOGAMISIS
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 2,901

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.11	1.20	1.41	3.15	2.80	2.38	1.63	2.43	2.68	2.68	2.46	1.76	2.22	
BOD5														
INFLUENT (MG/L)	149.0	98.0	114.0	52.0	59.0	59.0	341.0	46.0	58.0	50.0	57.0	102.0	98.8	
EFFLUENT (MG/L)	5.0	2.7	12.5	4.3	2.6	1.9	1.6	9.2	1.9	1.7	2.1	2.6	4.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	10.55	3.24	17.62	13.54	7.28	4.52	2.60	22.35	5.09	4.55	5.16	4.57	8.88	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	385.0	122.0	215.0	87.0	82.0	87.0	68.0	77.0	57.0	57.0	85.0	90.0	117.7	
EFFLUENT (MG/L)	2.5	4.0	45.0	8.5	6.0	4.5	3.0	9.2	2.0	2.5	4.5	3.0	7.9	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	5.27	4.80	63.45	26.77	16.80	10.71	4.89	22.35	5.36	6.70	11.07	5.28	17.54	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.3	5.6	5.7	2.6	3.3	3.9	3.5	3.1	3.4	2.9	3.3	4.1	4.0	
EFFLUENT (MG/L)	2.8	2.7	3.5	0.9	0.9	1.5	1.8	1.7	1.4	1.4	1.5	1.9	1.8	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	5.90	3.24	4.93	2.83	2.52	3.57	2.93	4.13	3.75	3.75	3.69	3.34	4.00	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : GOLDEN
PLANT : BALMERTOWN WPCP
WORKS NUMBER : 110003291
TREATMENT : EXTENDED AERATION
:
:
DESIGN CAPACITY : 1.22 (1000 M3)

REGION : NORTHWEST
DISTRICT : KENORA
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BALMER CREEK
MINOR BASIN : LAKE WINNIPEG EAST
MAJOR BASIN : NELSON RIVER
POPULATION SERVED : 1,300

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.32	1.44	1.47	1.54	1.28	1.40	1.45	1.45	0.99	0.83	0.88	1.06	1.26	
BOD5														
INFLUENT (MG/L)	133.0	90.0	35.0	79.0	84.0	79.0	162.0	82.0	88.0	113.0	106.0	316.0	113.9	
EFFLUENT (MG/L)	3.1	8.3	2.5	5.7	2.7	4.3	3.9	2.9	3.6	4.7	3.7	8.5	4.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	4.09	11.95	3.67	8.77	3.45	6.02	5.65	4.20	3.56	3.90	3.25	9.01	5.67	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	70.0	95.0	50.0	92.0	85.0	68.0	90.0	77.0	88.0	93.0	118.0	410.0	111.3	
EFFLUENT (MG/L)	15.0	5.7	6.0	11.0	2.6	7.0	3.0	4.0	3.0	4.0	4.0	8.5	6.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	19.80	8.20	8.82	16.94	3.32	9.80	4.35	5.80	2.97	3.32	3.52	9.01	7.81	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.6	5.1	3.8	2.4	5.3	4.2	5.7	4.7	5.5	5.6	5.2	7.8	5.0	
EFFLUENT (MG/L)	2.6	2.4	2.1	1.2	1.0	1.9	2.6	2.7	3.0	3.1	3.3	2.5	2.4	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	3.43	3.45	3.08	1.84	1.28	2.66	3.77	3.91	2.97	2.57	2.90	2.65	3.02	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : GOLDEN
PLANT : COCHENOUR LAGOON
WORKS NUMBER : 110002504
TREATMENT : CONVENTIONAL LAGOON SEASONAL
:
:
DESIGN CAPACITY : 0.76 (1000 M3)

REGION : NORTHWEST
DISTRICT : KENORA
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : RED LAKE
MINOR BASIN : LAKE WINNIPEG EAST
MAJOR BASIN : NELSON RIVER
POPULATION SERVED : 800

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.51	0.37	0.47	0.46	0.30	0.26	0.28	0.28	0.28	0.01	0.44	0.43	0.34	
LAGOON DISCHARGE	ND	ND	ND	ND	12.00	42.00	ND	ND	ND	ND	54.00	ND	36.00	
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	25.0	ND	19.0	78.0	47.0	70.0	12.0	41.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	14.0	5.5	ND	43.0	ND	1.6	0.8	ND	13.0	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	ND	ND	ND	ND	4.20	1.43	ND	12.04	ND	0.01	0.35	ND	4.42	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	45.0	ND	20.0	70.0	45.0	70.0	15.0	44.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	20.0	6.0	ND	35.0	ND	30.0	1.0	ND	18.4	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	ND	ND	ND	ND	6.00	1.56	ND	9.80	ND	0.30	0.44	ND	6.26	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	4.0	ND	1.4	7.1	2.9	4.9	2.6	3.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	2.3	2.6	ND	3.7	ND	3.8	0.5	ND	2.6	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	0.69	0.67	ND	1.03	ND	0.03	0.22	ND	0.88	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : IGNACE
PLANT : IGNACE WPCP
WORKS NUMBER : 110001355
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 2.53 (1000 M3)

REGION : NORTHWEST
DISTRICT : KENORA
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : AGIMAC CREEK
MINOR BASIN : LAKE WINNIPEG EAST
MAJOR BASIN : NELSON RIVER
POPULATION SERVED : 2,285

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.19	1.25	1.41	1.39	1.11	1.04	1.03	1.27	1.96	2.04	1.35	1.41	1.37	
BOD5														
INFLUENT (MG/L)	108.0	84.0	88.0	92.0	84.0	93.0	148.0	41.0	98.0	62.0	53.0	62.0	84.4	
EFFLUENT (MG/L)	3.7	4.1	5.7	2.4	3.2	5.2	1.7	1.6	2.9	2.0	2.6	4.0	3.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	4.40	5.12	8.03	3.33	3.55	5.40	1.75	2.03	5.68	4.08	3.51	5.64	4.52	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	138.0	92.0	102.0	67.0	135.0	98.0	105.0	57.0	148.0	70.0	58.0	61.0	94.3	
EFFLUENT (MG/L)	12.5	15.0	12.5	8.0	11.5	12.0	8.5	9.3	8.0	12.5	18.3	17.5	12.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	14.87	18.75	17.62	11.12	12.76	12.48	8.75	11.81	15.68	25.50	24.70	24.67	16.58	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.5	4.4	4.9	4.0	7.0	4.4	6.3	3.0	3.9	3.4	2.9	3.0	4.4	
EFFLUENT (MG/L)	0.7	0.4	0.6	0.6	0.9	0.7	0.5	0.5	0.5	0.6	0.8	0.7	0.6	
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	0.83	0.50	0.84	0.83	0.99	0.72	0.51	0.63	0.98	1.22	1.08	0.98	0.82	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	1.0 MG/L	YES

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : KENORA
PLANT : KENORA WPCP
WORKS NUMBER : 120000239
TREATMENT : CONTACT STABILIZATION
:
:
DESIGN CAPACITY : 18.18 (1000 M3)

REGION : NORTHWEST
DISTRICT : KENORA
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : WINNIPEG RIVER
MINOR BASIN : LAKE WINNIPEG EAST
MAJOR BASIN : NELSON RIVER
POPULATION SERVED : 12,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	8.79	9.32	9.92	10.97	9.38	10.17	11.67	11.43	10.92	8.57	8.26	8.24	9.80	
BOD5														
INFLUENT (MG/L)	245.0	106.0	76.0	100.0	116.0	95.0	75.0	114.0	105.0	98.0	140.0	160.0	119.2	
EFFLUENT (MG/L)	8.8	11.0	4.0	5.3	4.5	19.0	12.0	3.0	2.0	7.0	13.0	15.0	8.7	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	77.35	102.52	39.68	58.14	42.21	193.23	140.04	34.29	21.84	59.99	107.38	123.60	85.26	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	220.0	110.0	130.0	100.0	180.0	110.0	74.0	100.0	100.0	80.0	120.0	110.0	119.5	
EFFLUENT (MG/L)	15.0	9.0	8.0	10.0	6.0	5.0	20.0	5.0	4.0	5.0	5.0	10.0	8.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	131.85	83.88	79.36	109.70	56.28	50.85	233.40	57.15	43.68	42.85	41.30	82.40	83.30	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.6	2.4	3.5	2.9	5.4	6.1	3.8	6.3	5.3	5.2	5.2	5.2	4.7	
EFFLUENT (MG/L)	0.5	0.3	0.4	0.3	0.7	1.0	3.6	3.1	2.9	1.5	3.0	2.3	1.6	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	4.39	2.79	3.96	3.29	6.56	10.17	42.01	35.43	31.66	12.85	24.78	18.95	15.68	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : LONGLAC
PLANT : LONGLAC WPCP
WORKS NUMBER : 110001042
TREATMENT : CONTACT STABILIZATION
:
:
DESIGN CAPACITY : 2.45 (1000 M3)

REGION : NORTHWEST
DISTRICT : THUNDER BAY
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : MAKING GROUND RIVER
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 2,900

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.77	1.61	1.69	4.10	2.88	2.83	2.43	2.99	2.97	2.75	2.60	1.76	2.53	
BOD5														
INFLUENT (MG/L)	85.0	131.0	129.0	51.0	58.0	78.0	71.0	47.0	73.0	61.0	78.0	82.0	78.7	
EFFLUENT (MG/L)	4.2	9.4	6.7	14.1	3.5	4.2	6.0	4.1	7.2	5.9	12.1	6.1	7.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	7.43	15.13	11.32	57.81	10.08	11.88	14.58	12.25	21.38	16.22	31.46	10.73	17.71	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	75.0	130.0	135.0	65.0	73.0	95.0	70.0	33.0	65.0	83.0	105.0	90.0	84.9	
EFFLUENT (MG/L)	4.0	19.0	14.5	19.0	3.5	5.0	7.0	8.0	9.0	8.5	7.5	9.5	9.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	7.08	30.59	24.50	77.90	10.08	14.15	17.01	23.92	26.73	23.37	19.50	16.72	24.04	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.8	6.1	5.6	2.6	4.8	4.8	4.3	4.8	4.2	3.8	4.1	4.5	4.5	
EFFLUENT (MG/L)	0.5	1.0	0.3	0.8	0.4	0.4	1.0	0.7	0.6	0.6	1.1	1.2	0.7	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.88	1.61	0.50	3.28	1.15	1.13	2.43	2.09	1.78	1.65	2.86	2.11	1.77	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MADSEN
PLANT : MADSEN WPCP
WORKS NUMBER : 110002363
TREATMENT : COMMUNAL SEPTIC TANK
:
:
DESIGN CAPACITY : 0.27 (1000 M3)

REGION : NORTHWEST
DISTRICT : KENORA
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : NO DISCHARGE TO S.WATER
MINOR BASIN : LAKE WINNIPEG EAST
MAJOR BASIN : NELSON RIVER
POPULATION SERVED : 300

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.18	0.17	0.17	0.15	0.18	0.20	0.09	0.09	0.07	0.07	0.08	0.07	0.13	
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	93.0	93.0	111.0	113.0	111.0	104.2	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	86.0	53.0	81.0	75.5	71.0	73.3	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	7.74	3.71	5.67	6.04	4.97	9.53	
PERCENT REMOVAL								08	43	27	33	36	30	
PERCENT REMOVAL LIMITS													30	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	73.0	59.0	78.0	70.0	99.0	75.8	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	53.0	33.0	45.0	45.0	50.0	45.2	
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	4.77	2.31	3.15	3.60	3.50	5.88	
PERCENT REMOVAL								27	44	42	36	49	40	
PERCENT REMOVAL LIMITS													50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	6.8	ND	5.5	7.1	8.5	7.0	
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	5.6	4.6	5.5	5.0	5.3	5.2	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	0.50	0.32	0.38	0.40	0.37	0.68	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30%	NO DIRECT DISCHARGE
SS	50%	NO DIRECT DISCHARGE
TP	NA	NO DIRECT DISCHARGE

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - REMEDIAL MEASURES BEING EVALUATED			1995

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MANITOUWADGE
PLANT : MANITOUWADGE LAGOON
WORKS NUMBER : 120001988
TREATMENT : AERATED LAGOON
: CONTINUOUS DISCHARGE
:
DESIGN CAPACITY : 4.10 (1000 M3)

REGION : NORTHWEST
DISTRICT : THUNDER BAY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : RUDDER LAKE
MINOR BASIN : SUPERIOR
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 5,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	2.59	2.60	2.65	4.41	3.77	3.13	3.15	2.88	2.98	3.11	3.49	3.28	3.17	
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	92.0	94.0	98.0	46.0	42.0	60.0	58.0	58.0	85.0	68.0	76.0	70.0	70.6	
EFFLUENT (MG/L)	15.0	16.0	15.0	17.0	37.0	35.0	7.5	4.3	10.0	5.5	16.0	13.0	15.9	
CONCENTRATION LIMIT (MG/L)													30.0	
LOADING (KG/D)	38.85	41.60	39.75	74.97	139.49	109.55	23.62	12.38	29.80	17.10	55.84	42.64	50.40	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	75.0	120.0	80.0	60.0	60.0	90.0	75.0	45.0	80.0	95.0	130.0	100.0	84.2	
EFFLUENT (MG/L)	8.0	7.0	9.0	10.0	15.0	30.0	25.0	15.0	10.0	10.0	20.0	9.0	14.0	
CONCENTRATION LIMIT (MG/L)													40.0	
LOADING (KG/D)	20.72	18.20	23.85	44.10	56.55	93.90	78.75	43.20	29.80	31.10	69.80	29.52	44.38	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.5	4.1	4.3	2.7	3.3	5.4	5.5	4.1	6.8	5.7	3.6	4.3	4.4	
EFFLUENT (MG/L)	3.2	3.1	3.4	3.0	2.0	2.7	3.2	3.1	3.1	2.9	2.7	2.4	2.9	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	8.28	8.06	9.01	13.23	7.54	8.45	10.08	8.92	9.23	9.01	9.42	7.87	9.19	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30.0 MG/L	YES
SS	40.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : MARATHON
PLANT : MARATHON WPCP
WORKS NUMBER : 120000471
TREATMENT : EXTENDED AERATION
:
:
DESIGN CAPACITY : 4.40 (1000 M3)

REGION : NORTHWEST
DISTRICT : THUNDER BAY
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : LAKE SUPERIOR
MINOR BASIN : SUPERIOR
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 5,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.23	1.27	1.44	1.40	1.23	1.18	1.05	0.79	1.52	1.41	1.49	1.73	1.31	
BOD5														
INFLUENT (MG/L)	106.0	103.0	115.0	105.0	114.0	95.0	160.0	132.0	119.0	142.0	126.0	117.0	119.5	
EFFLUENT (MG/L)	3.1	4.6	4.0	4.3	5.0	5.0	1.9	1.6	4.8	2.6	6.9	4.8	4.1	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.81	5.84	5.76	6.02	6.15	5.90	1.99	1.26	7.29	3.66	10.28	8.30	5.37	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	135.0	140.0	135.0	110.0	118.0	175.0	125.0	93.0	90.0	120.0	90.0	125.0	121.3	
EFFLUENT (MG/L)	3.0	2.3	4.0	6.0	5.3	7.0	3.0	2.7	6.0	3.3	1.5	6.0	4.2	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	3.69	2.92	5.76	8.40	6.51	8.26	3.15	2.13	9.12	4.65	2.23	10.38	5.50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.5	5.8	6.7	5.5	6.3	5.7	8.3	7.2	7.5	7.0	6.3	6.8	6.6	
EFFLUENT (MG/L)	4.0	4.1	3.7	3.5	5.3	5.5	5.3	5.0	5.5	5.1	4.2	4.7	4.7	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	4.92	5.20	5.32	4.90	6.51	6.49	5.56	3.95	8.36	7.19	6.25	8.13	6.16	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NAKINA
PLANT : NAKINA WPCP (NO PH REMOVAL AUG.18 1987)
WORKS NUMBER : 110003308
TREATMENT : EXTENDED AERATION
: CONVERTIBLE OPERATING MODE
:
DESIGN CAPACITY : 1.70 (1000 M3)

REGION : NORTHWEST
DISTRICT : THUNDER BAY
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : BALKAM CREEK
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 750

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.33	0.34	0.37	0.75	0.55	0.41	0.43	0.37	0.49	0.62	0.57	0.49	0.48	
BOD5														
INFLUENT (MG/L)	87.0	57.0	59.0	46.0	39.0	49.0	117.0	75.0	77.0	49.0	38.0	120.0	67.8	
EFFLUENT (MG/L)	3.0	1.4	1.9	2.1	4.4	0.6	1.1	0.9	2.8	2.0	1.8	2.0	2.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.99	0.47	0.70	1.57	2.42	0.24	0.47	0.33	1.37	1.24	1.02	0.98	0.96	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	110.0	73.0	70.0	70.0	73.0	72.0	110.0	140.0	88.0	60.0	53.0	170.0	90.8	
EFFLUENT (MG/L)	12.5	15.0	10.0	9.0	9.5	4.3	3.0	3.0	6.0	5.5	8.1	4.0	7.5	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	4.12	5.10	3.70	6.75	5.22	1.76	1.29	1.11	2.94	3.41	4.61	1.96	3.60	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.7	3.2	3.2	2.3	2.3	3.1	5.3	5.1	1.2	2.8	2.6	3.9	3.3	
EFFLUENT (MG/L)	0.7	0.5	0.8	1.4	0.5	0.4	0.3	1.3	1.7	1.3	1.5	1.6	1.0	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.23	0.17	0.29	1.05	0.27	0.16	0.12	0.48	0.83	0.80	0.85	0.78	0.48	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : NIPIGON
PLANT : NIPIGON WPCP
WORKS NUMBER : 120000514
TREATMENT : PRIMARY
:
:
DESIGN CAPACITY : 1.63 (1000 M3)

REGION : NORTHWEST
DISTRICT : THUNDER BAY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NIPIGON RIVER
MINOR BASIN : SUPERIOR
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,180

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.92	1.89	1.82	1.85	0.76	2.01	1.79	1.46	1.63	1.90	0.90	1.74	1.64	
BOD5														
INFLUENT (MG/L)	140.0	106.0	106.0	116.0	150.0	88.0	92.0	100.0	56.0	112.0	70.0	118.0	104.5	
EFFLUENT (MG/L)	48.0	43.0	56.0	63.0	46.0	40.0	30.0	92.0	23.0	52.0	60.0	59.0	51.0	
LOADING (KG/D)	92.16	81.27	101.92	116.55	34.96	80.40	53.70	134.32	37.49	98.80	54.00	102.66	83.64	
PERCENT REMOVAL	66	59	47	46	69	55	67	08	59	54	14	50	51	
PERCENT REMOVAL LIMITS													30	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	220.0	130.0	150.0	170.0	190.0	65.0	100.0	95.0	90.0	100.0	120.0	130.0	130.0	
EFFLUENT (MG/L)	40.0	25.0	45.0	45.0	25.0	55.0	30.0	40.0	30.0	40.0	40.0	50.0	38.8	
LOADING (KG/D)	76.80	47.25	81.90	83.25	19.00	110.55	53.70	58.40	48.90	76.00	36.00	87.00	63.63	
PERCENT REMOVAL	82	81	70	74	87	15	70	58	67	60	67	62	70	
PERCENT REMOVAL LIMITS													50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.1	4.8	4.2	7.1	5.0	5.0	6.2	5.7	4.0	4.7	5.4	6.3	5.4	
EFFLUENT (MG/L)	3.3	3.1	3.7	4.4	3.1	5.6	3.5	4.6	2.3	4.2	3.7	4.1	3.8	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	6.33	5.85	6.73	8.14	2.35	11.25	6.26	6.71	3.74	7.98	3.33	7.13	6.23	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30%	YES
SS	50%	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : PICKLE LAKE
PLANT : PICKLE LAKE WPCP
WORKS NUMBER : 110002185
TREATMENT : EXTENDED AERATION

DESIGN CAPACITY : 0.90 (1000 M3)

REGION : NORTHWEST
DISTRICT : KENORA
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : KAWINOGANS RIVER
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED
POPULATION SERVED : 425

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.33	0.39	0.44	0.55	0.78	0.41	0.44	0.38	0.31	0.26	0.26	0.27	0.40	
BOD5														
INFLUENT (MG/L)	20.0	26.0	22.0	44.0	41.0	33.0	33.0	38.0	56.0	66.0	77.0	46.0	41.8	
EFFLUENT (MG/L)	0.8	1.2	1.1	1.0	4.1	2.6	0.9	9.9	1.6	4.7	3.9	3.9	3.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	0.26	0.46	0.48	0.55	3.19	1.06	0.39	3.76	0.49	1.22	1.01	1.05	1.20	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	27.0	48.0	105.0	63.5	52.0	41.0	35.0	45.0	35.0	80.0	80.0	50.0	55.1	
EFFLUENT (MG/L)	3.5	3.5	1.0	1.5	1.0	8.0	5.5	24.0	3.0	3.5	8.3	12.5	6.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	1.15	1.36	0.44	0.82	0.78	3.28	2.42	9.12	0.93	0.91	2.15	3.37	2.52	
TOTAL PHOSPHORUS														
INFLUENT (MG/L)	0.9	0.8	0.5	1.0	1.7	1.1	1.1	1.2	1.2	2.9	2.9	2.1	1.5	
EFFLUENT (MG/L)	1.4	1.4	1.2	1.1	1.4	2.1	1.9	2.3	2.0	2.1	1.6	1.6	1.7	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.46	0.54	0.52	0.60	1.09	0.86	0.83	0.87	0.62	0.54	0.41	0.43	0.68	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : RED LAKE
PLANT : RED LAKE WPCP
WORKS NUMBER : 110001131
TREATMENT : EXTENDED AERATION

DESIGN CAPACITY : 2.46 (1000 M3)

REGION : NORTHWEST
DISTRICT : KENORA
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : HOWEY BAY
MINOR BASIN : LAKE WINNIPEG EAST
MAJOR BASIN : NELSON RIVER
POPULATION SERVED : 1,945

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	1.92	2.05	1.91	2.11	1.59	1.61	1.78	1.73	1.82	1.78	1.70	1.80	1.82	
BOD5														
INFLUENT (MG/L)	74.0	71.0	34.0	37.0	66.0	179.0	63.0	73.0	73.0	91.0	98.0	59.0	76.5	
EFFLUENT (MG/L)	2.4	2.9	4.7	8.9	3.0	1.4	2.4	1.5	2.1	2.2	2.3	5.9	3.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	4.60	5.94	8.97	18.77	4.77	2.25	4.27	2.59	3.82	3.91	3.91	10.62	6.01	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	85.0	98.0	45.0	50.0	62.0	195.0	60.0	83.0	54.0	75.0	75.0	62.0	78.7	
EFFLUENT (MG/L)	6.5	7.5	7.0	7.0	5.0	5.0	6.0	5.0	5.0	5.0	6.5	6.0	6.0	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	12.48	15.37	13.37	14.77	7.95	8.05	10.68	8.65	9.10	8.90	11.05	10.80	10.92	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	3.7	3.4	2.6	2.6	3.8	5.1	3.7	4.0	3.1	3.9	3.2	3.0	3.5	
EFFLUENT (MG/L)	1.8	1.7	1.7	1.4	6.8	2.0	2.4	2.0	1.5	1.8	1.8	1.2	2.2	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	3.45	3.48	3.24	2.95	10.81	3.22	4.27	3.46	2.73	3.20	3.06	2.16	4.00	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : RED ROCK
PLANT : RED ROCK WPCP
WORKS NUMBER : 120001817
TREATMENT : PRIMARY
:
:
DESIGN CAPACITY : 1.27 (1000 M3)

REGION : NORTHWEST
DISTRICT : THUNDER BAY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NIPIGON BAY
MINOR BASIN : SUPERIOR
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,150

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.64	0.74	0.65	0.95	0.34	0.84	0.75	0.93	0.95	1.09	1.24	0.78	0.83	
BOD5														
INFLUENT (MG/L)	120.0	66.0	185.0	120.0	66.0	86.0	40.0	44.0	36.0	68.0	42.0	50.0	76.9	
EFFLUENT (MG/L)	51.0	33.0	49.0	44.0	66.0	22.0	44.0	11.0	25.0	28.0	10.0	23.0	33.8	
LOADING (KG/D)	32.64	24.42	31.85	41.80	22.44	18.48	33.00	10.23	23.75	30.52	12.40	17.94	28.05	
PERCENT REMOVAL	58	50	74	63		74	ND	75	31	59	76	54	56	
PERCENT REMOVAL LIMITS													30	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	100.0	75.0	180.0	110.0	45.0	110.0	60.0	36.0	45.0	140.0	50.0	95.0	87.2	
EFFLUENT (MG/L)	25.0	25.0	35.0	20.0	25.0	10.0	20.0	7.0	10.0	25.0	25.0	20.0	20.6	
LOADING (KG/D)	16.00	18.50	22.75	19.00	8.50	8.40	15.00	6.51	9.50	27.25	31.00	15.60	17.10	
PERCENT REMOVAL	75	67	81	82	44	91	67	81	78	82	50	79	76	
PERCENT REMOVAL LIMITS													50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.2	3.5	6.7	5.3	3.6	5.2	2.7	2.1	2.8	4.6	2.8	3.0	4.0	
EFFLUENT (MG/L)	3.6	2.4	3.4	2.5	2.8	1.5	2.4	1.7	1.5	1.7	2.1	2.2	2.3	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	2.30	1.77	2.21	2.37	0.95	1.26	1.80	1.58	1.42	1.85	2.60	1.71	1.91	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	30%	YES
SS	50%	YES
TP	NA	NA

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : SCHREIBER
PLANT : SCHREIBER WPCP
WORKS NUMBER : 110002112
TREATMENT : EXTENDED AERATION
: CONTACT STABILIZATION
: CONVERTIBLE OPERATING MODE
DESIGN CAPACITY : 1.13 (1000 M3)

REGION : NORTHWEST
DISTRICT : THUNDER BAY
OPERATING AUTHORITY : MINISTRY OF THE ENVIRONMENT
WATERCOURSE : CREEK TO L.SUPERIOR
MINOR BASIN : SUPERIOR
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 1,937

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.54	0.58	0.63	0.74	0.62	0.69	0.72	0.71	0.75	0.77	0.77	0.63	0.68	
BOD5														
INFLUENT (MG/L)	119.0	84.0	99.0	325.0	134.0	117.0	100.0	106.0	136.0	108.0	121.0	78.0	127.3	
EFFLUENT (MG/L)	22.0	27.5	22.0	29.5	40.8	26.0	55.0	29.5	35.0	25.5	20.3	11.0	28.7*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	11.88	15.95	13.86	21.83	25.29	17.94	39.60	20.94	26.25	19.63	15.63	6.93	19.52	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	150.0	130.0	150.0	835.0	156.0	130.0	50.0	98.0	95.0	90.0	112.0	80.0	173.0	
EFFLUENT (MG/L)	25.0	35.0	20.0	22.5	22.0	18.8	50.0	40.0	35.0	32.5	31.7	20.0	29.4*	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	13.50	20.30	12.60	16.65	13.64	12.97	36.00	28.40	26.25	25.02	24.40	12.60	19.99	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	5.2	5.3	5.3	9.1	6.5	6.4	5.7	5.6	5.0	5.4	5.5	5.1	5.8	
EFFLUENT (MG/L)	3.6	3.6	3.4	3.6	3.8	3.4	7.7	3.8	2.6	2.1	3.0	2.8	3.6	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	1.94	2.08	2.14	2.66	2.35	2.34	5.54	2.69	1.95	1.61	2.31	1.76	2.45	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	NO
SS	25.0 MG/L	NO
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

START DATE	END DATE	ANTICIPATED COMPLIANCE
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE		1988/03

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : SIOUX LOOKOUT
PLANT : SIOUX LOOKOUT WPCP
WORKS NUMBER : 120000220
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
:
:
DESIGN CAPACITY : 2.27 (1000 M3)

REGION : NORTHWEST
DISTRICT : KENORA
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : PELICAN LAKE
MINOR BASIN : LAKE WINNIPEG EAST
MAJOR BASIN : NELSON RIVER
POPULATION SERVED : 3,006

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	3.31	3.99	2.87	2.77	2.57	2.55	2.19	2.54	2.58	2.06	2.34	2.22	2.67	
BOD5														
INFLUENT (MG/L)	128.0	96.0	128.0	96.0	80.0	72.0	78.0	92.0	120.0	100.0	110.0	116.0	101.3	
EFFLUENT (MG/L)	41.0	13.0	8.0	7.0	6.5	4.8	37.0	3.8	5.0	7.5	5.8	20.0	13.3	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	135.71	51.87	22.96	19.39	16.70	12.24	81.03	9.65	12.90	15.45	13.57	44.40	35.51	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	140.0	55.0	170.0	130.0	100.0	50.0	40.0	90.0	170.0	55.0	ND	120.0	101.8	
EFFLUENT (MG/L)	10.0	15.0	15.0	8.0	9.0	5.0	7.0	1.0	9.0	6.0	6.0	15.0	8.8	
CONCENTRATION LIMIT (MG/L)													25.0	
LOADING (KG/D)	33.10	59.85	43.05	22.16	23.13	12.75	15.33	2.54	23.22	12.36	14.04	33.30	23.50	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	6.7	5.1	6.3	3.3	5.4	5.8	4.8	6.4	5.0	5.3	ND	4.8	5.4	
EFFLUENT (MG/L)	3.4	3.7	3.3	2.5	4.0		3.1	3.4	3.8	4.1	4.1	3.5	3.2	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	11.25	14.76	9.47	6.92	10.28		6.78	8.63	9.80	8.44	9.59	7.77	8.54	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	25.0 MG/L	YES
SS	25.0 MG/L	YES
TP	NA	NA

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - HAS NO CRITERIA
M - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

START DATE	END DATE	ANTICIPATED COMPLIANCE

COLLECTION SYSTEM - COLLECTION SYSTEM UNDER REVIEW
FACILTY EXPANSION/UPGRADING - PRELIMINARY DESIGN PHASE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : TERRACE BAY
PLANT : TERRACE BAY LAGOON
WORKS NUMBER : 120000499
TREATMENT : CONVENTIONAL LAGOON CONTINUOUS
: EXFILTRATION LAGOON
:
DESIGN CAPACITY : 1.36 (1000 M3)

REGION : NORTHWEST
DISTRICT : THUNDER BAY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NO DISC.TO SURFACE WATER
MINOR BASIN : SUPERIOR
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 2,000

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LAGOON DISCHARGE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
BOD5														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SUSPENDED SOLIDS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
EFFLUENT (MG/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	NA	NO DIRECT DISCHARGE
SS	NA	NO DIRECT DISCHARGE
TP	NA	NO DIRECT DISCHARGE

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - HAS NO CRITERIA
SS - HAS NO CRITERIA
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : TERRACE BAY
PLANT : TERRACE BAY WPCP
WORKS NUMBER : 120003030
TREATMENT : EXTENDED AERATION
: EXFILTRATION LAGOON
:
DESIGN CAPACITY : 0.54 (1000 M3)

REGION : NORTHWEST
DISTRICT : THUNDER BAY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : NO DISC.TO SURFACE WATER
MINOR BASIN : SUPERIOR
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 500

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	0.23	0.23	0.25	0.30	0.30	0.33	0.34	0.38	0.37	0.27	0.36	0.18	0.30	
BOD5														
INFLUENT (MG/L)	84.0	290.0	145.0	98.0	70.0	104.0	66.0	105.0	ND	102.0	74.0	84.0	111.1	
EFFLUENT (MG/L)	4.1	8.0	8.5	2.4	2.3	1.5	2.6	2.5	4.1	3.2	1.3	2.0	3.5	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.94	1.84	2.12	0.72	0.69	0.49	0.88	0.95	1.51	0.86	0.46	0.36	1.05	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	90.0	250.0	120.0	120.0	80.0	150.0	65.0	150.0	ND	140.0	130.0	130.0	129.5	
EFFLUENT (MG/L)	5.0	8.0	7.0	5.0	6.0	3.0	4.0	1.0	20.0	10.0	1.0	5.0	6.3	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	1.15	1.84	1.75	1.50	1.80	0.99	1.36	0.38	7.40	2.70	0.36	0.90	1.89	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	9.9	14.0	6.0	8.1	5.8	6.7	3.1	7.8	ND	8.6	5.0	5.4	7.3	
EFFLUENT (MG/L)	3.1	3.8	2.7	2.6	3.2	ND	3.7	3.7	3.6	2.3	ND	ND	3.2	
CONCENTRATION LIMIT (MG/L)														
LOADING (KG/D)	0.71	0.87	0.67	0.78	0.96	ND	1.25	1.40	1.33	0.62	ND	ND	0.96	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	NA	NO DIRECT DISCHARGE
SS	NA	NO DIRECT DISCHARGE
TP	NA	NO DIRECT DISCHARGE

NO REMEDIAL MEASURES REPORTED

NOTE:
BOD - HAS NO CRITERIA
SS - HAS NO CRITERIA
TP - HAS NO CRITERIA
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

1988 EFFLUENT GUIDELINES ASSESSMENT

MUNICIPALITY : THUNDER BAY
PLANT : THUNDER BAY WPCP
WORKS NUMBER : 120004805
TREATMENT : PRIMARY
: PHOSPHORUS REMOVAL-CONTINUOUS
:
DESIGN CAPACITY : 109.10 (1000 M3)

REGION : NORTHWEST
DISTRICT : THUNDER BAY
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : KAMINISTIKWIA RIVER
MINOR BASIN : SUPERIOR
MAJOR BASIN : GREAT LAKES
POPULATION SERVED : 101,527

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE	NUMBER EXCEED
AVG. DAILY FLOW (1000 M3)	79.80	70.50	80.77	68.61	77.25	75.83	80.03	105.27	104.38	93.94	109.85	79.41	85.47	
BOD5														
INFLUENT (MG/L)	175.0	211.0	184.0	157.0	167.0	181.0	163.0	288.0	134.0	143.0	131.0	145.0	173.3	
EFFLUENT (MG/L)	66.1	58.2	57.8	91.5	53.3	77.2	65.8	45.7	48.0	61.7	38.1	70.1	61.1	
LOADING (KG/D)	5274.78	4103.10	4668.50	6277.81	4117.42	5854.07	5265.97	4810.83	5010.24	5796.09	4185.28	5566.64	5222.22	
PERCENT REMOVAL	62	72	69	42	68	57	60	84	64	57	71	52	65	
PERCENT REMOVAL LIMITS													50	
SUSPENDED SOLIDS														
INFLUENT (MG/L)	218.0	217.0	238.0	207.0	235.0	257.0	197.0	242.0	191.0	179.0	153.0	148.0	206.8	
EFFLUENT (MG/L)	73.8	68.0	89.0	79.5	74.6	79.6	77.7	66.3	64.0	50.7	44.3	57.0	68.7	
LOADING (KG/D)	5889.24	4794.00	7188.53	5454.49	5762.85	6036.06	6218.33	6979.40	6680.32	4762.75	4866.35	4526.37	5871.79	
PERCENT REMOVAL	66	69	63	62	68	69	61	73	66	72	71	61	67*	
PERCENT REMOVAL LIMITS													70	
TOTAL PHOSPHOROUS														
INFLUENT (MG/L)	4.9	4.9	5.0	4.8	4.8	4.4	4.6	4.3	4.2	4.5	4.3	4.5	4.6	
EFFLUENT (MG/L)	1.1*	1.2*	1.2*	1.4*	0.9	1.0	1.0	0.9	1.1*	1.1*	0.6	0.9	1.0	6
CONCENTRATION LIMIT (MG/L)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
LOADING (KG/D)	87.78	84.60	96.92	96.05	69.52	75.83	80.03	94.74	114.81	103.33	65.91	71.46	85.47	

SUMMARY

PARM	CRITERIA	COMPLIES WITH CONC
BOD	50%	YES
SS	70%	NO
TP	1.0 MG/L	NO

NOTE:
BOD - ASSESSED ANNUALLY
SS - ASSESSED ANNUALLY
TP - ASSESSED MONTHLY
* - EXCEEDS EFFLUENT CRITERIA
SPACE (EG. " ") INDICATES A VALUE OF ZERO
ND - NO DATA
NA - NOT APPLICABLE

REMEDIAL MEASURES

	START DATE	END DATE	ANTICIPATED COMPLIANCE
OPERATIONAL/PROCESS - PROCESS CONTROL BEING UPGRADED			

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LISTOWEL LAGOON CONT DIS (SUMMER SPRAY)	LISTOWEL	C-50
LITTLE CURRENT LAGOON	LITTLE CURRENT	C-384
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LIVELY WPCP	WALDEN	C-425
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LUCAN LAGOON	LUCAN	C-57
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MANITOUWADGE LAGOON	MANITOUWADGE	C-448
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MARKDALE LAGOON	MARKDALE	C-59
MARMORA WPCP	MARMORA	C-311
MATHESON WPCP	BLACK RIVER MATHESON	C-347
MATTAGAMI WPCP	TIMMINS	C-420
MATTAWA LAGOON	MATTAWA	C-385
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MOONBEAM LAGOON	MOONBEAM	C-389
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NAKINA WPCP (NO PH REMOVAL AUG.18 1987)	NAKINA	C-450
NAPANEE WPCP	NAPANEE	C-314
NEUSTADT LAGOON	NORMANBY	C-68
NEW HAMBURG LAGOON	WILMOT	C-178
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PETROLIA WPCP + LAGOON	PETROLIA	C-73
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TARA LAGOON	ARRAN	C-13
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APPENDIX D

SEWAGE TREATMENT PLANT

PRIMARY AND SECONDARY

BYPASS DATA

FOR 1988

ABBREVIATIONS FOR APPENDIX D

Hrs. ..... Hours

No of Times ..... Number of Bypass Occurrences

1000 m^3 ..... Thousands of Cubic Meters

WPCP ..... Water Pollution Control Plant
(same as STP)

SOUTHWEST REGION

1988 BYPASS OCCURRENCES

MUNICIPALITY : CLINTON
PLANT : CLINTON WPCP
WORKS NUMBER : 120000925
WATERCOURSE : BAYFIELD RIVER

REGION : SOUTHWEST
DISTRICT : HURON
OP AUTHORITY : MUNICIPAL
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 1.818
POPULATION SERVED : 3,000
TREATMENT : CONTACT STABILIZATION
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT FILTRATION

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR	9.00		0			
APR						
MAY						
JUN						
JUL						
AUG						
SEP						
OCT	9.90		0			
NOV	9.90	12.0	2			
DEC	2.00	4.0	1			
TOTAL	30.80	16.0	3	0.00	0.0	0
OBSERVATIONS	4	2.0	4	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	3.73%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : LONDON
PLANT : GREENWAY WPCP
WORKS NUMBER : 120000863
WATERCOURSE : THAMES RIVER

REGION : SOUTHWEST
DISTRICT : MIDDLESEC
OP AUTHORITY : MUNICIPAL
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 124.333
POPULATION SERVED : 168,274
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN				1.81		0
FEB				4.86		0
MAR				41.45		0
APR				22.36		0
MAY				31.13		0
JUN				0.24		0
JUL				39.59		0
AUG				53.86		0
SEP				22.72		0
OCT				88.59		0
NOV				182.36		0
DEC				44.54		0
TOTAL	0.00	0.0	0	533.55	0.0	0
OBSERVATIONS	0	0.0	0	12	0.0	12
PERCENTAGE OF PLANT EFFLUENT	0.00%			1.25%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : LONDON
PLANT : POTTERSBURG WPCP
WORKS NUMBER : 120000836
WATERCOURSE : THAMES RIVER

REGION : SOUTHWEST
DISTRICT : MIDDLESEC
OP AUTHORITY : MUNICIPAL
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 22.048
POPULATION SERVED : 25,653
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	3.16		0			
FEB	1.72		0			
MAR	0.31		0			
APR	0.50		0			
MAY	3.72		0			
JUN						
JUL	0.48		0			
AUG	0.91		0			
SEP	0.44		0			
OCT						
NOV	4.58		0			
DEC						
TOTAL	15.86	0.0	0	0.00	0.0	0
OBSERVATIONS	9	0.0	9	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.22%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : OWEN SOUND
PLANT : OWEN SOUND WPCP
WORKS NUMBER : 110000551
WATERCOURSE : GEORGIAN BAY

REGION : SOUTHWEST
DISTRICT : GREY
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 24.548
POPULATION SERVED : 20,000
TREATMENT : PRIMARY
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR	0.50	1.1	1			
APR						
MAY	0.17	0.6	1			
JUN						
JUL						
AUG						
SEP						
OCT						
NOV	0.40	1.6	1			
DEC						
TOTAL	1.08	3.3	3	0.00	0.0	0
OBSERVATIONS	3	3.0	3	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.02%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : STEPHEN
PLANT : HURON PARK WPCP
WORKS NUMBER : 110003488
WATERCOURSE : AUSABLE RIVER

REGION : SOUTHWEST
DISTRICT : HURON
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 1.818
POPULATION SERVED : 1,400
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00	15.0	2			
FEB						
MAR	1.51	56.5	5			
APR	0.02	2.0	1			
MAY						
JUN						
JUL	0.08	3.0	1			
AUG	0.05	2.0	1			
SEP						
OCT	0.75	28.0	5			
NOV	0.83	31.8	4			
DEC	0.46	17.5	4			
TOTAL	3.72	155.8	23	0.00	0.0	0
OBSERVATIONS	8	8.0	8	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.87%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : STRATFORD
PLANT : STRATFORD WPCP
WORKS NUMBER : 110000702
WATERCOURSE : AVON RIVER

REGION : SOUTHWEST
DISTRICT : PERTH
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 27.276
POPULATION SERVED : 26,017
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB		4.0		4.30	6.8	1
MAR		35.0		59.20	132.5	7
APR				9.10	50.0	3
MAY				0.48	6.3	1
JUN						
JUL	0.00	0.0	0	0.00	0.0	0
AUG						
SEP	1.10	2.0	1	4.66	8.8	1
OCT	4.74	13.8	2	19.12	66.0	5
NOV	1.96	11.5	3	22.15	62.8	9
DEC	1.80	10.0	1	19.09	23.0	3
TOTAL	9.60	76.3	7	138.12	356.2	30
OBSERVATIONS	5	7.0	5	9	9.0	9
PERCENTAGE OF PLANT EFFLUENT	0.12%			1.71%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : TUCKERSMITH
PLANT : VAN ASTRA WPCP
WORKS NUMBER : 110003013
WATERCOURSE : MUN DRAIN TO BAYFIELD R.

REGION : SOUTHWEST
DISTRICT : HURON
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 1.405
POPULATION SERVED : 650
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN						
JUL						
AUG						
SEP						
OCT	1.79	15.0	2			
NOV	6.06		5			
DEC		16.0				
TOTAL	7.85	31.0	7	0.00	0.0	0
OBSERVATIONS	2	2.0	2	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	2.62%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : WINDSOR
PLANT : LITTLE RIVER WPCP
WORKS NUMBER : 120001096
WATERCOURSE : LITTLE RIVER

REGION : SOUTHWEST
DISTRICT : ESSEX
OP AUTHORITY : MUNICIPAL
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 36.368
POPULATION SERVED : 64,000
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	185.30		0			
FEB	113.70		0			
MAR	32.70		0			
APR	134.80		0			
MAY	3.40		0			
JUN	30.30		0			
JUL	22.20		0			
AUG	24.00		0			
SEP	55.40		0			
OCT	77.70		0			
NOV	137.80		0			
DEC	71.80		0			
TOTAL	889.10	0.0	0	0.00	0.0	0
OBSERVATIONS	12	0.0	12	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	7.37%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : WINDSOR
PLANT : WESTERLY WPCP
WORKS NUMBER : 120001103
WATERCOURSE : DETROIT RIVER

REGION : SOUTHWEST
DISTRICT : ESSEX
OP AUTHORITY : MUNICIPAL
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 163.656
POPULATION SERVED : 123,000
TREATMENT : PRIMARY
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB	16.80		0			
MAR	0.00		0			
APR	17.70		0			
MAY						
JUN	5.00		0			
JUL	6.00		0			
AUG	1.90		0			
SEP	21.90		0			
OCT	24.20		0			
NOV	74.30		0			
DEC	18.60		0			
TOTAL	186.40	0.0	0	0.00	0.0	0
OBSERVATIONS	10	0.0	10	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.45%			0.00%		

WEST CENTRAL REGION

1988 BYPASS OCCURRENCES

MUNICIPALITY : BRANTFORD
PLANT : BRANTFORD WPCP
WORKS NUMBER : 110000043
WATERCOURSE : GRAND RIVER

REGION : WEST CENTRAL
DISTRICT : BRANT
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 84.101
POPULATION SERVED : 73,000
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN						
JUL						
AUG						
SEP	0.00	0.0	1			
OCT						
NOV	0.00	0.0	0			
DEC	0.00	0.0	0			
TOTAL	0.00	0.0	1	0.00	0.0	0
OBSERVATIONS	3	3.0	3	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : CAMBRIDGE
PLANT : GALT WPCP
WORKS NUMBER : 110000276
WATERCOURSE : GRAND RIVER

REGION : WEST CENTRAL
DISTRICT :
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 38.641
POPULATION SERVED : 50,143
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN						
JUL	4.32	2.5	0			
AUG	8.18	17.8	0			
SEP						
OCT						
NOV						
DEC						
TOTAL	12.50	20.3	0	0.00	0.0	0
OBSERVATIONS	2	2.0	2	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.11%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : FERGUS
PLANT : FERGUS WPCP
WORKS NUMBER : 110000249
WATERCOURSE : GRAND RIVER

REGION : WEST CENTRAL
DISTRICT : WELLINGTON
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 5.001
POPULATION SERVED : 6,050
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR	0.30	13.0	5			
APR	1.52	11.0	0			
MAY						
JUN						
JUL						
AUG						
SEP						
OCT						
NOV						
DEC						
TOTAL	1.82	24.0	5	0.00	0.0	0
OBSERVATIONS	2	2.0	2	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.13%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : HALDIMAND
PLANT : CALEDONIA WPCP
WORKS NUMBER : 120001452
WATERCOURSE : GRAND RIVER

REGION : WEST CENTRAL
DISTRICT : HALDIMAN-NORFOLK, REG. MUN.
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 2.273
POPULATION SERVED : 4,237
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00	0.0	0			
FEB	0.00	0.0	0			
MAR	0.00	0.0	0			
APR	0.00	0.0	0			
MAY	0.00	0.0	0			
JUN	0.00	0.0	0			
JUL	0.00	0.0	0	8.87	55.0	0
AUG	0.00	0.0	0			
SEP	0.00	0.0	0			
OCT	0.00	0.0	0	1.90	11.3	0
NOV	0.00	0.0	0	1.05	10.0	0
DEC						
TOTAL	0.00	0.0	0	11.82	76.3	0
OBSERVATIONS	11	11.0	11	3	3.0	3
PERCENTAGE OF PLANT EFFLUENT	0.00%			1.30%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : HALDIMAND
PLANT : CAYUGA WPCP
WORKS NUMBER : 110000089
WATERCOURSE : GRAND RIVER

REGION : WEST CENTRAL
DISTRICT : HALDIMAN-NORFOLK, REG. MUN.
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 0.909
POPULATION SERVED : 1,049
TREATMENT : OXIDATION DITCH
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN						
JUL	0.00	0.0	0	0.00	0.0	0
AUG	0.00	0.0	0	0.00	0.0	0
SEP						
OCT				1.59	10.0	1
NOV				1.64	23.0	2
DEC	0.00	0.0	0	0.50	8.0	0
TOTAL	0.00	0.0	0	3.74	41.0	3
OBSERVATIONS	3	3.0	3	5	5.0	5
PERCENTAGE OF PLANT EFFLUENT	0.00%			2.24%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : HALDIMAND
PLANT : HAGERSVILLE WPCP
WORKS NUMBER : 110001024
WATERCOURSE : SANDUSK CREEK

REGION : WEST CENTRAL
DISTRICT : HALDIMAN-NORFOLK, REG. MUN.
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 1.000
POPULATION SERVED : 2,362
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
: AEROBIC SINGLE STAGE

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB	0.39	45.0	0			
MAR	0.12	13.0	0			
APR	0.08	10.0	0			
MAY						
JUN						
JUL	.45	40.0	0			
AUG						
SEP						
OCT						
NOV	0.00	0.0	0	0.00	0.0	0
DEC	0.00	0.0	1	0.00	0.0	1
TOTAL	1.05	108.0	1	0.00	0.0	1
OBSERVATIONS	6	6.0	6	2	2.0	2
PERCENTAGE OF PLANT EFFLUENT	0.24%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : HAMILTON
PLANT : WOODWARD AVE.WPCP
WORKS NUMBER : 120001504
WATERCOURSE : REDHILL CREEK

REGION : WEST CENTRAL
DISTRICT : HAMILTON-WENTWORTH, REG. MUN.
OP AUTHORITY : MUNICIPAL
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 409.140
POPULATION SERVED : 300,000
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR		24.0			11.5	
MAY		2.5			30.8	
JUN		0.0			5.0	
JUL		33.3			44.0	
AUG		34.0			84.0	
SEP		25.0			0.0	
OCT		14.5			0.0	
NOV		15.0			0.0	
DEC		10.0			0.0	
TOTAL	0.00	158.3	0	0.00	175.3	0
OBSERVATIONS	0	9.0	0	0	9.0	0
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : NIAGARA FALLS
PLANT : STAMFORD WPCP
WORKS NUMBER : 120001363
WATERCOURSE : CHIPPAWA POWER CANAL

REGION : WEST CENTRAL
DISTRICT : NIAGARA, REG. MUN.
OP AUTHORITY : MUNICIPAL
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 58.189
POPULATION SERVED : 67,835
TREATMENT : ROTATING BIOLOGICAL CONTACTOR
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB	165.40		0			
MAR	52.44		0			
APR	17.78		0			
MAY	53.05		0			
JUN						
JUL	76.23		0			
AUG						
SEP	3.40		0			
OCT	186.60		0			
NOV	69.20		0			
DEC						
TOTAL	624.12	0.0	0	0.00	0.0	0
OBSERVATIONS	8	0.0	8	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	3.03%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : ST CATHARINES
PLANT : PORT DALHOUSIE WPCP
WORKS NUMBER : 120001327
WATERCOURSE : LAKE ONTARIO

REGION : WEST CENTRAL
DISTRICT : NIAGARA, REG. MUN.
OP AUTHORITY : MUNICIPAL
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 61.371
POPULATION SERVED : 60,430
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.47		0			
FEB	0.47		0			
MAR	0.47		0			
APR	0.47		0			
MAY	0.47		0			
JUN	0.47		0			
JUL	0.47		0			
AUG	0.47		0			
SEP	4.00		0			
OCT	13.00		0			
NOV	14.20		0			
DEC	0.00		0			
TOTAL	35.00	0.0	0	0.00	0.0	0
OBSERVATIONS	12	0.0	12	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.22%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : ST CATHARINES
PLANT : PORT WELLER WPCP
WORKS NUMBER : 120001318
WATERCOURSE : PORT WELLER HARBOUR

REGION : WEST CENTRAL
DISTRICT : NIAGARA, REG. MUN.
OP AUTHORITY : MUNICIPAL
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 37.505
POPULATION SERVED : 75,690
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.47		0			
FEB	0.47		0			
MAR	0.47		0			
APR	0.47		0			
MAY	0.47		0			
JUN	0.47		0			
JUL	0.47		0			
AUG	0.47		0			
SEP		0.0				
OCT		0.0				
NOV		0.0				
DEC						
TOTAL	3.80	0.0	0	0.00	0.0	0
OBSERVATIONS	8	3.0	8	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.03%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : WELLESLEY
PLANT : WELLESLEY WPCP
WORKS NUMBER : 110001578
WATERCOURSE : NITH RIVER

REGION : WEST CENTRAL
DISTRICT :
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 0.500
POPULATION SERVED : 950
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN						
JUL						
AUG	0.14	0.0	0	0.00	0.0	0
SEP	0.00	0.0	0	0.00	0.0	0
OCT	0.00	0.0	0	0.00	0.0	0
NOV	0.00	0.0	0	0.00	0.0	0
DEC	0.00	0.0	0	0.00	0.0	0
TOTAL	0.14	0.0	0	0.00	0.0	0
OBSERVATIONS	5	5.0	5	5	5.0	5
PERCENTAGE OF PLANT EFFLUENT	0.07%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : WILMOT
PLANT : BADEN WPCP
WORKS NUMBER : 110001710
WATERCOURSE : BADEN CREEK

REGION : WEST CENTRAL
DISTRICT :
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : ERIE
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 0.923
POPULATION SERVED : 1,152
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN						
JUL	0.23	2.0	1			
AUG						
SEP						
OCT						
NOV						
DEC						
TOTAL	0.23	2.0	1	0.00	0.0	0
OBSERVATIONS	1	1.0	1	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.10%			0.00%		

CENTRAL REGION

1988 BYPASS OCCURRENCES

MUNICIPALITY : BOBCAYGEON
PLANT : BOBCAGEON WPCP
WORKS NUMBER : 110002498
WATERCOURSE : BOBCAYGEON RIVER

REGION : CENTRAL
DISTRICT : VICTORIA
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 3.055
POPULATION SERVED : 1,610
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN						
JUL						
AUG						
SEP	0.00		30	0.00		30
OCT	0.00		31	0.00		31
NOV	0.00		30	0.00		30
DEC	0.00		31	0.00		31
TOTAL	0.00	0.0	122	0.00	0.0	122
OBSERVATIONS	4	0.0	4	4	0.0	4
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : BURLINGTON
PLANT : SKYWAY WPCP
WORKS NUMBER : 110000070
WATERCOURSE : HAMILTON HARBOUR

REGION : CENTRAL
DISTRICT : HALLIBURTON, REG. MUN.
OP AUTHORITY : MUNICIPAL
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 93.193
POPULATION SERVED : 120,100
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN				0.67		0
FEB						
MAR						
APR						
MAY				2.44		0
JUN				0.73		0
JUL				8.10		0
AUG				2.47		0
SEP				8.21		0
OCT				0.00		0
NOV				0.00		0
DEC				0.00		0
TOTAL	0.00	0.0	0	22.65	0.0	0
OBSERVATIONS	0	0.0	0	9	0.0	9
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.10%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : COBOURG
PLANT : COBOURG WPCP NO 1
WORKS NUMBER : 120000097
WATERCOURSE : COBOURG BROOK

REGION : CENTRAL
DISTRICT : NORTHUMBERLAND
OP AUTHORITY : MUNICIPAL
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 16.047
POPULATION SERVED : 5,500
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN						
JUL				0.59		0
AUG						
SEP						
OCT						
NOV						
DEC						
TOTAL	0.00	0.0	0	0.59	0.0	0
OBSERVATIONS	0	0.0	0	1	0.0	1
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.02%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : FENELON FALLS
PLANT : FENELON FALLS WPCP
WORKS NUMBER : 110001612
WATERCOURSE : FENELON RIVER

REGION : CENTRAL
DISTRICT : VICTORIA
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 1.000
POPULATION SERVED : 1,817
TREATMENT : OXIDATION DITCH
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN						
JUL						
AUG						
SEP	0.00		30	0.00		30
OCT	0.00		31	0.00		31
NOV	0.00		30	0.00		30
DEC	0.00		31	0.00		31
TOTAL	0.00	0.0	122	0.00	0.0	122
OBSERVATIONS	4	0.0	4	4	0.0	4
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : METRO TORONTO
PLANT : MAIN WPCP (TORONTO)
WORKS NUMBER : 120000391
WATERCOURSE : LAKE ONTARIO

REGION : CENTRAL
DISTRICT : METRO TORONTO, MUN. OF
OP AUTHORITY : MUNICIPAL
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 818.280
POPULATION SERVED : 1,250,000
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00		0	0.00		0
FEB	0.00	0.0	0	0.00	0.0	0
MAR	0.00	0.0	0	0.00	0.0	0
APR	0.00	0.0	0	0.00	0.0	0
MAY	0.00	0.0	0	0.00	0.0	0
JUN	0.00	0.0	0	0.00	0.0	0
JUL	0.00	0.0	0	0.00	0.0	0
AUG	0.00		0	0.00		0
SEP	0.00		0	0.00		0
OCT	0.00		0	0.00		0
NOV	0.00		0	0.00	0.7	0
DEC	0.00		0	0.00		0
TOTAL	0.00	0.0	0	0.00	0.7	0
OBSERVATIONS	12	6.0	12	12	7.0	12
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : MILTON
PLANT : MILTON WPCP
WORKS NUMBER : 120001014
WATERCOURSE : OAKVILLE CREEK

REGION : CENTRAL
DISTRICT : HALLIBURTON, REG. MUN.
OP AUTHORITY : MUNICIPAL
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 12.911
POPULATION SERVED : 23,203
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00		0	0.00		0
FEB	0.00		0	0.00		0
MAR	0.00		0	0.00		0
APR	0.32		0	0.00		0
MAY	0.00		0	0.00		0
JUN	0.00		0	0.00		0
JUL	0.00		0	0.00		0
AUG	0.00		0	0.00		0
SEP	0.00		0	0.00		0
OCT	0.00		0	0.00		0
NOV	0.00		0	0.00		0
DEC	0.00		0	0.00		0
TOTAL	0.32	0.0	0	0.00	0.0	0
OBSERVATIONS	12	0.0	12	12	0.0	12
PERCENTAGE OF PLANT EFFLUENT	0.01%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : MISSISSAUGA
PLANT : CLARKSON WPCP
WORKS NUMBER : 110001328
WATERCOURSE : LAKE ONTARIO

REGION : CENTRAL
DISTRICT : PEEL, REG. MUN.
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 109.104
POPULATION SERVED : 150,000
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN				4.54	1.0	1
JUL						
AUG						
SEP						
OCT						
NOV						
DEC						
TOTAL	0.00	0.0	0	4.54	1.0	1
OBSERVATIONS	0	0.0	0	1	1.0	1
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.02%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : MISSISSAUGA
PLANT : LAKEVIEW WPCP
WORKS NUMBER : 110001284
WATERCOURSE : LAKE ONTARIO

REGION : CENTRAL
DISTRICT : PEEL, REG. MUN.
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 284.125
POPULATION SERVED : 470,000
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN						
JUL						
AUG						
SEP						
OCT	345.40		1			
NOV						
DEC						
TOTAL	345.40	0.0	1	0.00	0.0	0
OBSERVATIONS	1	0.0	1	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.37%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : NEWCASTLE
PLANT : PORT DARLINGTON WPCP
WORKS NUMBER : 120003076
WATERCOURSE : LAKE ONTARIO

REGION : CENTRAL
DISTRICT : DURHAM, REG. MUN.
OP AUTHORITY : MUNICIPAL
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 4.546
POPULATION SERVED : 12,831
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN						
JUL						
AUG						
SEP						
OCT						
NOV						
DEC	0.00		0	3.78		0
TOTAL	0.00	0.0	0	3.78	0.0	0
OBSERVATIONS	1	0.0	1	1	0.0	1
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.14%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : PETERBOROUGH
PLANT : PETERBOROUGH WPCP
WORKS NUMBER : 120000676
WATERCOURSE : OTONABEE RIVER

REGION : CENTRAL
DISTRICT : PETERBOROUGH
OP AUTHORITY : MUNICIPAL
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 68.190
POPULATION SERVED : 62,945
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN	0.00		0	0.00		0
JUL	0.00		0	0.00		0
AUG	0.00		0	0.00		0
SEP	0.00		0	0.00		0
OCT	0.00		0	0.00		0
NOV	0.00		0	0.00		0
DEC	0.11		0	0.00		0
TOTAL	0.11	0.0	0	0.00	0.0	0
OBSERVATIONS	7	0.0	7	7	0.0	7
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

SOUTHEAST REGION

1988 BYPASS OCCURRENCES

MUNICIPALITY : BELLEVILLE
PLANT : BELLEVILLE WPCP
WORKS NUMBER : 110000016
WATERCOURSE : BAY OF QUINTE

REGION : SOUTHEAST
DISTRICT : HASTINGS
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 54.552
POPULATION SERVED : 35,351
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00	0.0	5	5.90	13.0	31
FEB				106.10	134.0	11
MAR				292.90	300.0	27
APR				106.20	335.0	28
MAY				24.30	34.0	5
JUN						
JUL						
AUG						
SEP				0.00	0.0	30
OCT				47.30	106.0	31
NOV				3.40	4.0	30
DEC				67.60	450.0	31
TOTAL	0.00	0.0	5	653.70	1,376.0	224
OBSERVATIONS	1	1.0	1	9	9.0	9
PERCENTAGE OF PLANT EFFLUENT	0.00%			6.49%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : CARLETON PLACE
PLANT : CARLETON PLACE WPCP
WORKS NUMBER : 110000971
WATERCOURSE : MISSISSIPPI RIVER

REGION : SOUTHEAST
DISTRICT : LANARK
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 5.455
POPULATION SERVED : 6,600
TREATMENT : HIGH RATE
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN		258.0				
FEB	0.33	84.0	0			
MAR	46.15		0			
APR	48.20		0			
MAY	6.77		0			
JUN	0.83		0			
JUL						
AUG	0.36	25.5	0			
SEP						
OCT	0.16	17.0	0			
NOV	24.75	385.0	0			
DEC	2.46	3.0	0			
TOTAL	130.03	772.5	0	0.00	0.0	0
OBSERVATIONS	9	6.0	9	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	8.47%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : COBDEN
PLANT : COBDEN WPCP
WORKS NUMBER : 120000596
WATERCOURSE : MUSKRAT RIVER

REGION : SOUTHEAST
DISTRICT : RENFREW
OP AUTHORITY : MUNICIPAL
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 0.682
POPULATION SERVED : 1,035
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.17		0			
FEB						
MAR	0.90		0			
APR	0.35		0			
MAY						
JUN	0.15		0			
JUL	0.00		0			
AUG	0.50		0			
SEP	0.30		0			
OCT	0.00		0			
NOV	0.00		0			
DEC	0.00		0			
TOTAL	2.37	0.0	0	0.00	0.0	0
OBSERVATIONS	10	0.0	10	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.93%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : DELORO
PLANT : DELORO WPCP
WORKS NUMBER : 1?0000970
WATERCOURSE : MOIRA RIVER

REGION : SOUTHEAST
DISTRICT : HASTINGS
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 1.746
POPULATION SERVED : 157
TREATMENT : COMMUNAL SEPTIC TANK

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR		197.2				
MAY	7.24	30.2	3			
JUN	11.30	47.2	2			
JUL						
AUG						
SEP						
OCT						
NOV						
DEC						
TOTAL	18.54	274.6	5	0.00	0.0	0
OBSERVATIONS	2	3.0	2	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	234.33%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : EGANVILLE
PLANT : EGANVILLE WPCP
WORKS NUMBER : 110000141
WATERCOURSE : BONNECHERE RIVER

REGION : SOUTHEAST
DISTRICT : RENFREW
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 0.764
POPULATION SERVED : 1,219
TREATMENT : EXTENDED AERATION

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN						
JUL						
AUG						
SEP						
OCT						
NOV	0.00		30			
DEC						
TOTAL	0.00	0.0	30	0.00	0.0	0
OBSERVATIONS	1	0.0	1	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : FRANKFORD
PLANT : FRANKFORD WPCP
WORKS NUMBER : 110000267
WATERCOURSE : TRENT RIVER

REGION : SOUTHEAST
DISTRICT : HASTINGS
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 1.364
POPULATION SERVED : 2,190
TREATMENT : CONTACT STABILIZATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN						
JUL						
AUG						
SEP	0.00		0			
OCT	0.00		31			
NOV						
DEC	0.00	0.0	31			
TOTAL	0.00	0.0	62	0.00	0.0	0
OBSERVATIONS	3	1.0	3	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : HAWKESBURY
PLANT : HAWKESBURY WPCP
WORKS NUMBER : 110002283
WATERCOURSE : OTTAWA RIVER

REGION : SOUTHEAST
DISTRICT : PRESCOTT AND RUSSELL
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 12.274
POPULATION SERVED : 9,680
TREATMENT : MODIFIED ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	2.11	0.5	1			
FEB	1.05	0.2	0			
MAR	54.92	10.6	0			
APR	13.99	2.7	0			
MAY	5.70	1.1	0			
JUN	17.61	3.4	0			
JUL	18.13	3.5	0			
AUG	53.89	10.4	0			
SEP	11.91	2.3	0			
OCT	12.95	2.5	6			
NOV	35.23	6.8	7			
DEC	1.55	0.3	1	0.00	0.0	0
TOTAL	229.09	44.3	15	0.00	0.0	0
OBSERVATIONS	12	12.0	12	1	1.0	1
PERCENTAGE OF PLANT EFFLUENT	6.33%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : KEMPTVILLE
PLANT : KEMPTVILLE WPCP
WORKS NUMBER : 120000113
WATERCOURSE : KEMPTVILLE CREEK

REGION : SOUTHEAST
DISTRICT : LEEDS AND GRENVILLE
OP AUTHORITY : MUNICIPAL
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 2.273
POPULATION SERVED : 2,400
TREATMENT : PRIMARY
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN						
JUL						
AUG						
SEP						
OCT						
NOV						
DEC	2.00	2.0	0	2.00	2.0	0
TOTAL	2.00	2.0	0	2.00	2.0	0
OBSERVATIONS	1	1.0	1	1	1.0	1
PERCENTAGE OF PLANT EFFLUENT	0.28%			0.28%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : KINGSTON
PLANT : KINGSTON WPCP
WORKS NUMBER : 120001050
WATERCOURSE : ST.LAWRENCE RIVER

REGION : SOUTHEAST
DISTRICT : FRONTENAC
OP AUTHORITY : MUNICIPAL
MINOR BASIN : ST. LAWRENCE
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 61.371
POPULATION SERVED : 67,000
TREATMENT : PRIMARY
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR	134.40		0			
APR	100.65		0			
MAY						
JUN						
JUL						
AUG	0.00		0			
SEP	0.00	0.0	0			
OCT	0.00	0.0	0			
NOV	0.00	0.0	0			
DEC	2.50	5.5	0			
TOTAL	237.55	5.5	0	0.00	0.0	0
OBSERVATIONS	7	4.0	7	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	1.13%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : NEPEAN
PLANT : WATTS CREEK WPCP
WORKS NUMBER : 120000701
WATERCOURSE : WATTS CREEK

REGION : SOUTHEAST
DISTRICT : OTTAWA-CARLETON, REG. MUN.
OP AUTHORITY : MUNICIPAL
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 29.549
POPULATION SERVED : 52,500
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN				15.60		0
FEB				19.10		0
MAR				123.80		0
APR				198.20		0
MAY				45.20		0
JUN				0.90		0
JUL	0.00		0	2.80		0
AUG	0.00		0	2.60		0
SEP	0.00		0	0.40		0
OCT	0.00		0	54.20		0
NOV	0.00		0	118.40		0
DEC	0.00		0	7.40		0
TOTAL	0.00	0.0	0	588.60	0.0	0
OBSERVATIONS	6	0.0	6	12	0.0	12
PERCENTAGE OF PLANT EFFLUENT	0.00%			5.32%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : OSNABRUCK
PLANT : INGLESIDE WPCP
WORKS NUMBER : 120000140
WATERCOURSE : ST. LAWRENCE RIVER

REGION : SOUTHEAST
DISTRICT : STORMONT, DUNDAS AND GLENGARR
OP AUTHORITY : MUNICIPAL
MINOR BASIN : ST. LAWRENCE
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 1.573
POPULATION SERVED : 1,500
TREATMENT : PRIMARY

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN						
JUL						
AUG						
SEP						
OCT	0.73		0			
NOV						
DEC						
TOTAL	0.73	0.0	0	0.00	0.0	0
OBSERVATIONS	1	0.0	1	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.18%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : PRESCOTT
PLANT : EDWARDSBURGH WPCP
WORKS NUMBER : 110001122
WATERCOURSE : ST. LAWRENCE RIVER

REGION : SOUTHEAST
DISTRICT : LEEDS AND GRENVILLE
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : ST. LAWRENCE
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 5.683
POPULATION SERVED : 4,595
TREATMENT : PRIMARY
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN		4.2				
FEB		2.0			9.0	
MAR		1.7			9.5	
APR		0.5			29.0	
MAY		7.3				
JUN		2.9			1.0	
JUL		1.5			3.0	
AUG		0.2			14.5	
SEP						
OCT	0.00	0.8	0	0.00	16.2	0
NOV	0.00	1.0	0	0.00	3.3	0
DEC	0.00	0.0	0	0.00	0.0	0
TOTAL	0.00	22.1	0	0.00	85.5	0
OBSERVATIONS	3	11.0	3	3	9.0	3
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : SIDNEY
PLANT : BATAWA WPCP
WORKS NUMBER : 110000668
WATERCOURSE : TRENT RIVER

REGION : SOUTHEAST
DISTRICT : HASTINGS
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : ONTARIO
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 0.568
POPULATION SERVED : 300
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN				1.95		0
FEB				3.14		0
MAR				8.13		0
APR				0.48		0
MAY				0.02		0
JUN						
JUL						
AUG						
SEP						
OCT				0.81		2
NOV				0.87		5
DEC						
TOTAL	0.00	0.0	0	15.40	0.0	7
OBSERVATIONS	0	0.0	0	7	0.0	7
PERCENTAGE OF PLANT EFFLUENT	0.00%			5.53%		

NORTHEAST REGION

1988 BYPASS OCCURRENCES

MUNICIPALITY : BLACK RIVER MATHESON
PLANT : MATHESON WPCP
WORKS NUMBER : 110000025
WATERCOURSE : BLACK RIVER

REGION : NORTHEAST
DISTRICT : COCHRANE
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED

DESIGN CAPACITY : 1.046
POPULATION SERVED : 920
TREATMENT : EXTENDED AERATION

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR	0.00		1			
MAY						
JUN						
JUL						
AUG	0.68	2.2	1			
SEP	0.42	4.0	2			
OCT						
NOV	0.00		30			
DEC	0.00		31			
TOTAL	1.10	6.2	65	0.00	0.0	0
OBSERVATIONS	5	2.0	5	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.33%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : BLIND RIVER
PLANT : BLIND RIVER WPCP
WORKS NUMBER : 110002416
WATERCOURSE : LAKE HURON

REGION : NORTHEAST
DISTRICT : ALGOMA
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 3.500
POPULATION SERVED : 3,200
TREATMENT : EXTENDED AERATION

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR	1.40	5.0	0			
APR	0.00	0.0	30		0.0	
MAY						
JUN	0.00	0.0	30		0.0	
JUL						
AUG						
SEP						
OCT	1.24	4.0	1			
NOV	0.27	1.0	0			
DEC						
TOTAL	2.91	10.0	61	0.00	0.0	0
OBSERVATIONS	5	5.0	5	0	2.0	0
PERCENTAGE OF PLANT EFFLUENT	0.34%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : ELLIOT LAKE
PLANT : ESTEN LAKE WPCP
WORKS NUMBER : 120001121
WATERCOURSE : ESTEN LAKE

REGION : NORTHEAST
DISTRICT : ALGOMA
OP AUTHORITY : MUNICIPAL
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 13.002
POPULATION SERVED : 19,000
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
: EFFLUENT POLISHING

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR	0.00		0	0.00		0
APR	0.00		0	0.00		0
MAY	0.00		0	0.00		0
JUN	0.00		0	0.00		0
JUL	2.27	2.0	0	0.00		0
AUG	0.00		0			
SEP	0.00		0	0.00		0
OCT	0.00		0	0.00		0
NOV	0.00	0.0	0	0.00	0.0	0
DEC	0.00	0.0	0	0.00	0.0	0
TOTAL	2.27	2.0	0	0.00	0.0	0
OBSERVATIONS	10	3.0	10	9	2.0	9
PERCENTAGE OF PLANT EFFLUENT	0.08%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : KAPUSKASING
PLANT : KAPUSKASING WPCP
WORKS NUMBER : 110003004
WATERCOURSE : KAPUSKASING RIVER

REGION : NORTHEAST
DISTRICT : COCHRANE
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED

DESIGN CAPACITY : 9.092
POPULATION SERVED : 12,000
TREATMENT : EXTENDED AERATION

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN						
JUL						
AUG						
SEP						
OCT	0.00		31			
NOV						
DEC	0.28		0			
TOTAL	0.28	0.0	31	0.00	0.0	0
OBSERVATIONS	2	0.0	2	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.01%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : KIRKLAND LAKE
PLANT : KIRKLAND LAKE WPCP
WORKS NUMBER : 120000015
WATERCOURSE : MURDOCK CREEK

REGION : NORTHEAST
DISTRICT : TIMISKAMING
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 13.638
POPULATION SERVED : 12,500
TREATMENT : CONTACT STABILIZATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR	8.54	39.7	5			
APR	140.81	497.2	24			
MAY	0.00	0.0	0			
JUN						
JUL						
AUG	14.88	52.5	4			
SEP						
OCT	3.12	11.0	2			
NOV	6.81	24.0	5			
DEC						
TOTAL	174.17	624.4	40	0.00	0.0	0
OBSERVATIONS	6	6.0	6	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	4.01%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : MOOSONEE D.A.B.
PLANT : MOOSONEE WPCP (NORTH)
WORKS NUMBER : 120000319
WATERCOURSE : MOOSE RIVER

REGION : NORTHEAST
DISTRICT : COCHRANE
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED

DESIGN CAPACITY : 0.250
POPULATION SERVED : 300
TREATMENT : EXTENDED AERATION

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN						
JUL						
AUG						
SEP						
OCT	0.00		0			
NOV	0.00		0			
DEC	0.00		31			
TOTAL	0.00	0.0	31	0.00	0.0	0
OBSERVATIONS	3	0.0	3	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : MOOSONEE D.A.B.
PLANT : MOOSONEE WPCP (OLD TOWNSITE)
WORKS NUMBER : 110001060
WATERCOURSE : STORE CK TO MOOSE RIVER

REGION : NORTHEAST
DISTRICT : COCHRANE
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED

DESIGN CAPACITY : 0.509
POPULATION SERVED : 1,200
TREATMENT : CONTACT STABILIZATION

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN						
JUL						
AUG						
SEP						
OCT	0.00		0			
NOV	0.00		0			
DEC	0.00		31			
TOTAL	0.00	0.0	31	0.00	0.0	0
OBSERVATIONS	3	0.0	3	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : NICKEL CENTRE
PLANT : CONISTON WPCP
WORKS NUMBER : 110000123
WATERCOURSE : CONISTON CREEK

REGION : NORTHEAST
DISTRICT : SUDBURY, REG. MUN.
OP AUTHORITY : MUNICIPAL
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 1.600
POPULATION SERVED : 2,790
TREATMENT : OXIDATION DITCH
: CONVENTIONAL ACTIVATED SLUDGE
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR	2.95		0			
APR	2.30		0			
MAY						
JUN						
JUL						
AUG						
SEP						
OCT						
NOV						
DEC						
TOTAL	5.25	0.0	0	0.00	0.0	0
OBSERVATIONS	2	0.0	2	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.81%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : NORTH BAY
PLANT : NORTH BAY WPCP
WORKS NUMBER : 110000533
WATERCOURSE : LAKE NIPISSING

REGION : NORTHEAST
DISTRICT : NIPPISSING
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 36.368
POPULATION SERVED : 48,000
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN						
JUL						
AUG						
SEP	0.00		30	0.00		30
OCT	0.00		31	0.00		31
NOV	0.00		17	0.00		17
DEC	0.00		31	0.00		31
TOTAL	0.00	0.0	109	0.00	0.0	109
OBSERVATIONS	4	0.0	4	4	0.0	4
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : PARRY SOUND
PLANT : PARRY SOUND WPCP
WORKS NUMBER : 110000560
WATERCOURSE : MC CURRY LAKE

REGION : NORTHEAST
DISTRICT : PARRY SOUND
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 6.592
POPULATION SERVED : 5,500
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN						
JUL						
AUG						
SEP						
OCT						
NOV						
DEC	0.00	0.0	31	0.00	0.0	30
TOTAL	0.00	0.0	31	0.00	0.0	30
OBSERVATIONS	1	1.0	1	1	1.0	1
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : RAYSIDE-BALFOUR
PLANT : AZILDA WPCP
WORKS NUMBER : 110001783
WATERCOURSE : WHITSON CREEK

REGION : NORTHEAST
DISTRICT : SUDBURY, REG. MUN.
OP AUTHORITY : MUNICIPAL
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 2.841
POPULATION SERVED : 4,373
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR	5.45		0			
APR	65.44		0			
MAY						
JUN						
JUL						
AUG						
SEP						
OCT						
NOV						
DEC						
TOTAL	70.90	0.0	0	0.00	0.0	0
OBSERVATIONS	2	0.0	2	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	7.58%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : RAYSIDE-BALFOUR
PLANT : CHELMSFORD WPCP
WORKS NUMBER : 120001568
WATERCOURSE : WHITSON RIVER

REGION : NORTHEAST
DISTRICT : SUDBURY, REG. MUN.
OP AUTHORITY : MUNICIPAL
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 5.683
POPULATION SERVED : 4,934
TREATMENT : EXTENDED AERATION
: CONTACT STABILIZATION
: PHOSPHORUS REMOVAL-CONTINUOUS

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR	25.45		0			
APR	30.62		0			
MAY						
JUN						
JUL						
AUG						
SEP						
OCT						
NOV						
DEC						
TOTAL	56.08	0.0	0	0.00	0.0	0
OBSERVATIONS	2	0.0	2	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	4.38%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : SAULT STE MARIE
PLANT : WEST END WPCP
WORKS NUMBER : 110002540
WATERCOURSE : ST MARY'S RIVER

REGION : NORTHEAST
DISTRICT : ALGOMA
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 18.184
POPULATION SERVED : 0
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00	0.0	0	0.00	0.0	0
FEB						
MAR	0.10		1			
APR	1.80		29			
MAY	0.70		31			
JUN	0.00		7			
JUL	0.10		0			
AUG	0.60	0.0	7			
SEP	0.00		29			
OCT	0.00		31			
NOV	3.80		27			
DEC	0.00		31			
TOTAL	7.10	0.0	193	0.00	0.0	0
OBSERVATIONS	11	2.0	11	1	1.0	1
PERCENTAGE OF PLANT EFFLUENT	0.27%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : SMOOTH ROCK FALLS
PLANT : SMOOTH ROCK FALLS WPCP
WORKS NUMBER : 110002130
WATERCOURSE : MATTAGAMI RIVER

REGION : NORTHEAST
DISTRICT : COCHRANE
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED

DESIGN CAPACITY : 1.637
POPULATION SERVED : 2,251
TREATMENT : EXTENDED AERATION

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN						
JUL						
AUG	0.00		1			
SEP						
OCT	0.00		31			
NOV	0.00		30			
DEC	0.00		14			
TOTAL	0.00	0.0	76	0.00	0.0	0
OBSERVATIONS	4	0.0	4	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : STURGEON FALLS
PLANT : STURGEON FALLS WPCP
WORKS NUMBER : 110001435
WATERCOURSE : STURGEON RIVER

REGION : NORTHEAST
DISTRICT : NIPPISSING
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 4.546
POPULATION SERVED : 6,040
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR	0.64	9.7	3			
MAY	0.25	5.1	4			
JUN	0.19	9.7	5			
JUL	0.57		30			
AUG	0.68		31			
SEP	0.19		30			
OCT	0.98		31			
NOV	0.28		30			
DEC	0.00		31			
TOTAL	3.81	24.5	195	0.00	0.0	0
OBSERVATIONS	9	3.0	9	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.16%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : SUDBURY
PLANT : SUDBURY WPCP
WORKS NUMBER : 110000711
WATERCOURSE : JUNCTION CREEK

REGION : NORTHEAST
DISTRICT : SUDBURY, REG. MUN.
OP AUTHORITY : MUNICIPAL
MINOR BASIN : HURON
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 68.190
POPULATION SERVED : 95,000
TREATMENT : HIGH RATE

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR	271.00		0			
APR						
MAY						
JUN						
JUL						
AUG						
SEP						
OCT	25.37		0			
NOV	69.39		0			
DEC						
TOTAL	365.77	0.0	0	0.00	0.0	0
OBSERVATIONS	3	0.0	3	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	1.64%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : TIMMINS
PLANT : WHITNEY & TISDALE WPCP
WORKS NUMBER : 110001391
WATERCOURSE : PORCUPINE RIVER

REGION : NORTHEAST
DISTRICT : COCHRANE
OP AUTHORITY : MUNICIPAL
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED

DESIGN CAPACITY : 6.819
POPULATION SERVED : 7,300
TREATMENT : EXTENDED AERATION

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR	19.95		0			
MAY						
JUN						
JUL						
AUG	9.30		0			
SEP						
OCT						
NOV	6.50		0			
DEC						
TOTAL	35.76	0.0	0	0.00	0.0	0
OBSERVATIONS	3	0.0	3	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	2.31%			0.00%		

NORTHWEST REGION

1988 BYPASS OCCURRENCES

MUNICIPALITY : ATIKOKAN
PLANT : ATIKOKAN WPCP
WORKS NUMBER : 110001523
WATERCOURSE : ATIKOKAN RIVER

REGION : NORTHWEST
DISTRICT : RAINY RIVER
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : LAKE WINNIPEG EAST
MAJOR BASIN : NELSON RIVER

DESIGN CAPACITY : 4.082
POPULATION SERVED : 4,500
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN	0.00		0			
JUL	0.00		0			
AUG	1.09		0			
SEP	22.50		0			
OCT	0.00		0			
NOV	0.00		0			
DEC	0.00		0			
TOTAL	23.59	0.0	0	0.00	0.0	0
OBSERVATIONS	7	0.0	7	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	2.22%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : DRYDEN
PLANT : DRYDEN WPCP
WORKS NUMBER : 120000248
WATERCOURSE : WABIGOON RIVER

REGION : NORTHWEST
DISTRICT : KENORA
OP AUTHORITY : MUNICIPAL
MINOR BASIN : LAKE WINNIPEG EAST
MAJOR BASIN : NELSON RIVER

DESIGN CAPACITY : 6.819
POPULATION SERVED : 6,900
TREATMENT : CONTACT STABILIZATION

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN						
JUL						
AUG	0.49	3.0	0			
SEP						
OCT						
NOV						
DEC						
TOTAL	0.49	3.0	0	0.00	0.0	0
OBSERVATIONS	1	1.0	1	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.03%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : EAR FALLS
PLANT : EAR FALLS WPCP
WORKS NUMBER : 110001006
WATERCOURSE : ENGLISH RIVER

REGION : NORTHWEST
DISTRICT : KENORA
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : LAKE WINNIPEG EAST
MAJOR BASIN : NELSON RIVER

DESIGN CAPACITY : 2.864
POPULATION SERVED : 1,750
TREATMENT : EXTENDED AERATION
: CONVERTIBLE OPERATING MODE
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN						
JUL						
AUG						
SEP						
OCT						
NOV						
DEC		0.2				
TOTAL	0.00	0.2	0	0.00	0.0	0
OBSERVATIONS	0	1.0	0	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.00%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : GERALDTON
PLANT : GERALDTON WPCP
WORKS NUMBER : 110001649
WATERCOURSE : LAKE KENOGAMISIS

REGION : NORTHWEST
DISTRICT : THUNDER BAY
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED

DESIGN CAPACITY : 1.814
POPULATION SERVED : 2,901
TREATMENT : EXTENDED AERATION

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB	0.00	0.0	28	0.00	0.0	0
MAR	5.08		1			
APR	6.93		0			
MAY	19.88		0	1.93	15.3	0
JUN	1.79		0			
JUL						
AUG	3.27		0			
SEP	3.32		0			
OCT	1.28		0			
NOV	0.77		0			
DEC	0.00	0.0	0	0.00	0.0	0
TOTAL	42.34	0.0	29	1.93	15.3	0
OBSERVATIONS	10	2.0	10	3	3.0	3
PERCENTAGE OF PLANT EFFLUENT	5.20%			0.24%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : IGNACE
PLANT : IGNACE WPCP
WORKS NUMBER : 110001355
WATERCOURSE : AGIMAC CREEK

REGION : NORTHWEST
DISTRICT : KENORA
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : LAKE WINNIPEG EAST
MAJOR BASIN : NELSON RIVER

DESIGN CAPACITY : 2.532
POPULATION SERVED : 2,285
TREATMENT : EXTENDED AERATION
: PHOSPHORUS REMOVAL-CONTINUOUS
:

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN						
JUL						
AUG	0.00		0			
SEP	16.67	264.0	0			
OCT	14.16	288.0	0			
NOV						
DEC						
TOTAL	30.83	552.0	0	0.00	0.0	0
OBSERVATIONS	3	2.0	3	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	6.14%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : MARATHON
PLANT : MARATHON WPCP
WORKS NUMBER : 120000471
WATERCOURSE : LAKE SUPERIOR

REGION : NORTHWEST
DISTRICT : THUNDER BAY
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : SUPERIOR
MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY : 4.400
POPULATION SERVED : 5,000
TREATMENT : EXTENDED AERATION

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN						
JUL						
AUG						
SEP						
OCT						
NOV						
DEC	0.05	0.5	0			
TOTAL	0.05	0.5	0	0.00	0.0	0
OBSERVATIONS	1	1.0	1	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.01%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : PICKLE LAKE
PLANT : PICKLE LAKE WPCP
WORKS NUMBER : 110002185
WATERCOURSE : KAWINOGANS RIVER

REGION : NORTHWEST
DISTRICT : KENORA
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : JAMES BAY
MAJOR BASIN : ARCTIC WATERSHED

DESIGN CAPACITY : 0.909
POPULATION SERVED : 425
TREATMENT : EXTENDED AERATION

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN						
FEB						
MAR						
APR						
MAY						
JUN						
JUL	0.22		0			
AUG						
SEP						
OCT						
NOV						
DEC	1.11	103.0	5	0.00	0.0	0
TOTAL	1.33	103.0	5	0.00	0.0	0
OBSERVATIONS	2	1.0	2	1	1.0	1
PERCENTAGE OF PLANT EFFLUENT	0.97%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : RED LAKE
PLANT : RED LAKE WPCP
WORKS NUMBER : 110001131
WATERCOURSE : HOWEY BAY

REGION : NORTHWEST
DISTRICT : KENORA
OP AUTHORITY : MINISTRY OF THE ENVIRONMENT
MINOR BASIN : LAKE WINNIPEG EAST
MAJOR BASIN : NELSON RIVER

DESIGN CAPACITY : 2.464
POPULATION SERVED : 1,945
TREATMENT : EXTENDED AERATION

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00		0			
FEB	0.00		0			
MAR	0.00		0			
APR	0.00		0			
MAY						
JUN	0.00		0			
JUL	0.40		0			
AUG	0.00		0			
SEP	0.00	0.0	0			
OCT	0.00		0			
NOV	0.00		0			
DEC	0.00		0			
TOTAL	0.40	0.0	0	0.00	0.0	0
OBSERVATIONS	11	1.0	11	0	0.0	0
PERCENTAGE OF PLANT EFFLUENT	0.06%			0.00%		

1988 BYPASS OCCURRENCES

MUNICIPALITY : SIOUX LOOKOUT
PLANT : SIOUX LOOKOUT WPCP
WORKS NUMBER : 120000220
WATERCOURSE : PELICAN LAKE

REGION : NORTHWEST
DISTRICT : KENORA
OP AUTHORITY : MUNICIPAL
MINOR BASIN : LAKE WINNIPEG EAST
MAJOR BASIN : NELSON RIVER

DESIGN CAPACITY : 2.273
POPULATION SERVED : 3,006
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

	PLANT BYPASS			SECONDARY BYPASS		
MONTHS	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES	VOLUME (1000M3)	DURATION (HOURS)	NO OF TIMES
JAN	0.00		0	0.00		0
FEB						
MAR						
APR						
MAY						
JUN						
JUL	0.00		0	0.00		0
AUG	0.00		0	8.39		0
SEP	0.00		0	9.21		0
OCT	0.00		0	0.00		0
NOV	0.00		0	2.05		0
DEC	0.00		0	0.00		0
TOTAL	0.00	0.0	0	19.67	0.0	0
OBSERVATIONS	7	0.0	7	7	0.0	7
PERCENTAGE OF PLANT EFFLUENT	0.00%			2.02%		